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SPECIAL
COLLECTIONS

1964 One Hundred First Annual Report

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1964 One Hundred First Annual Report

New York Society for the Relief of the
Ruptured and Crippled
maintaining the

HOSPITAL FOR SPECIAL SURGERY

and the Margaret M. Caspary Clinic
The Philip D. Wilson Research Foundation
535 East 70th Street, New York 21, N. Y.

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Orthopaedics
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Thoracic Surgery
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Roentgenology
Allyn Ley, M.D.
Hematology

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Orthodontia
Roland L. Maier, M.D.
Surgery
Royal Montgomery, M.D.
Dermatology
Thomas Morrissey, M.D.
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Thoracic Surgery
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Andrew D. Kerr, Jr., M.D.
Anesthesiology
Marjorie B. Patterson, M.D.
Rheumatic Diseases

Marian Tyndall, M.D.
Rheumatic Diseases

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Warren E. Ungberg

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(Resigned June 1, 1965)
D. Dean Smith, R.N.
(Appointed June 1, 1965)

ASSISTANT DIRECTOR

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EDUCATIONAL DIRECTOR

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(Resigned June 1, 1965)
Dorothy Viskovich, R.N.
(Appointed June 1, 1965)

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CHIEF PHARMACIST

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CHIEF ENGINEER

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Philip Bastedo
President

REPORT OF THE PRESIDENT

The Hospital for Special Surgery made excellent progress during the last 10 years in achieving dramatic advances in the areas of research and teaching while at the same time providing superior patient care.

1964, with 62,738 patient days and 86.14% occupancy, set a new record in our location on 70th Street. This record was reflected in a Society deficit of \$354,000 (excluding depreciation), compared with \$556,000, our deficit of 1963.

The year saw much progress in the area of personnel relations. The Hospital was petitioned by the maintenance division for union representation by the Building and Construction Trades Council. The New York State Labor Relations Board held an election on October 5, 1964 and the vote was overwhelmingly against union representation. We were most gratified by this expression of support and confidence by our employees.

Recognizing the problems inherent in retirement and aware of our responsibilities to our employees and community, we have instituted a compre-

hensive pre-retirement program of education and counsel. Lectures have been given by guest speakers to employees over 45 years of age, covering various aspects of the long-range planning necessary for a successful adjustment to a new environment. It is too early to evaluate the results of the program but interviews with older employees have provided us with guide lines for future personnel policies.

Mr. Robert Delaney, our management consultant, has continued his program in systems analysis. New time-reporting procedures and payroll processing in specific areas were expanded and improved. We were able to provide better distribution of X-Ray work and to accelerate the patient flow through the X-Ray process.

In conjunction with the newly established New York Blood Center, this hospital has established an employees' blood bank. 125 employees each donated a pint of blood, and we expect this to increase.

The residency review committee for

orthopaedic surgery, representing the American Board of Orthopaedic Surgery and Council on Medical Education, approved our request to increase our residency program from 14 to 20 residents.

The continued rise in hospital costs is a cause for great concern to all hospitals. A seven-day routine hospital operation is a goal that the Surgeon-in-Chief and the Director have been shooting at for a long period of time. The X-Ray department is already on this schedule. The laboratories have gone on a routine 6-day and emergency work on Sunday schedule. Routine operating schedules have been increased to include Saturday, and the Recovery Room is now on a 24-hour a day, five day a week schedule. Much more remains to be accomplished.

I should like to express my deepest appreciation for the dedicated support that I have received during the year from the Board of Managers, the entire Hospital staff, the medical staff, the women's auxiliary and in particular from the Director, Mr. T. Gordon Young.

Respectfully submitted

Philip Bastedo
Philip Bastedo
President



Robert Lee Patterson, Jr., M.D.
Surgeon in Chief

REPORT OF THE SURGEON-IN-CHIEF

All activities of the various departments at The Hospital for Special Surgery have continued at an accelerated pace. In July, six residents began their training in orthopedic surgery at The Hospital for Special Surgery. This was a departure from the previous system under which one resident began his rotation at the beginning of each quarter of the year. These additional residents (we now have a total of 20) were deemed necessary to meet the ever-increasing demands for the best in patient care, greater flexibility in the time and availability of research opportunities and the fulfillment of our responsibility to society. The training program for these young men lasts three and one-half years. During this time, ten months is spent at the Veterans Administration Hospital, two months on the Bone Tumor Service at Memorial Hospital for Cancer and Allied Diseases, six months on the Fracture Service of The New York Hospital, and the remaining two years at this institution.

Residents who finished their training during 1964 were Edward J. Carey, M.D., Eugene M. Lance, M.D., and David B. Levine, M.D.

Fellowships in Orthopedic Surgery were completed in 1964 by the fol-

lowing individuals: Dr. Pedro Bacalao, Venezuela; Dr. Richard Braun, U.S.A.; Dr. Andre DelPierre, Belgium; Dr. Paul Flicker, U.S.A.; Dr. Alice Garrett, U.S.A.; Dr. Oved Kharmosh, Israel; Dr. Carlos Matamoros, Colombia; Dr. Keith Norcross, Great Britain; and as a Research Assistant, Dr. Hideo Fujii, Japan.

There were also changes in our attending staff. Dr. William D. Graham resigned to accept a position as Professor of Orthopedic Surgery and Chairman of the Department at the University of Witwatersand in Johannesburg, South Africa. Dr. Gerald J. Millstein resigned to accept a position as Attending Anesthesiologist in Florida. We were pleased to add to our attending staff Dr. Harlan C. Amstutz and Dr. Ralph Marcove who accepted positions as Orthopedic Surgeons to the Out-Patient Department. The Anesthesia Department was enlarged by the addition of Dr. Arthur LeeRoy who accepted an appointment to the Courtesy Staff.

The Department of Rehabilitation was created during the year to serve the present demand and to cope with the problems related to the Society's expanding interests in this field of health services. Dr. William Cooper became

the full-time Director of this valuable department.

The hospital's services to patients are detailed in the various tables throughout this report. However, it is important to note that the number of visits to the Out-Patient Department increased to some 52,000 for the year and, of this number, 2,766 patients entered the hospital for in-patient care. The Children's Orthopedic Service admitted 378 of these patients and the Adult Orthopedic Service admitted 446. The remaining 1,942 were admitted to the Private Orthopedic Service where they were under the care of their own attending surgeons.

An extremely important change took place when the operating room was made available for elective surgery in the afternoons and on Saturday, as well as in the mornings. The numbers and types of surgery performed are detailed in the tables throughout this report.

SPECIAL EVENTS

The Ninth Annual Postgraduate Course in Fractures and Other Trauma, sponsored jointly by The New York Hospital, The Hospital for Special Surgery and Cornell University Medical College, was held from June 8 through June 13, 1964.

A special "Symposium for the Restoration of Function in the Hand Affected by Injury, Disease, and Congenital Abnormality" was sponsored by the Greater New York Chapter of the National Foundation—March of Dimes. This took place on March 11th, 12th, and 13th. The program, organized by Dr. L. Ramsay Straub and Dr. Herbert Conway and participated in by professors and guests from all over the world, was one of the outstanding events of the year.

A course on the "Use of Radioactive Tracers in Orthopedics" was given at the hospital in cooperation with Cornell University Medical College. This course, set up and run by Dr. Göran Bauer, on November 19 to 21, 1964, was a real success.

The first Philip D. Wilson Orthopedic Lectureship was given on November 12, 1964. The guest speaker was Dr. Jose Valls of Buenos Aires, Argentina. The lectureship was held in conjunction with the Annual Alumni Day at the hospital.

Particularly exciting was the selection by the Westinghouse Corporation of an article entitled "The Bone Bank" by Peter G. Carnesale to be buried in Westinghouse's Time Capsule II at the World's Fair site. The article will be incarcerated along with other literature describing the progress man has made in the past 25 years since Time Capsule I was buried during the 1938 World's Fair. Dr. Carnesale did this work at the hospital while he was a senior medical student at Cornell University Medical College and it was published in the *Bulletin for The Hospital for Special Surgery*.

Amputee Clinic (Dr. T. Campbell Thompson): Statistics of the year 1964 are compared in the chart below with the preceding four years.*

When the 1964 new admissions were subdivided according to approximate amputation site, there were 43 above the knee, 26 below the knee, four bilateral above knee, one bilateral below knee, eight above elbow, nine below elbow, one bilateral hand and one above and below elbow. In 1964 there were eight patients under 21 compared with 11 in 1963.

Proposed plans for the future include: 1) A conference at the end of each new patient's interview attended by

the prosthetist, the physical therapist, the social worker, and the physicians, both attending and resident or fellow. 2) Making this clinic more useful to the Center as a whole. 3) Early fitting of amputees with total contact plaster sockets on temporary pylons. 4) Increasing our juvenile amputee load so that we can participate in the research and development clinic under the sponsorship of the Academy Subcommittee on Child Prosthetics.

SPECIAL CLINICS

	New Admissions	First Revisits This year	Referred Visits	Revisits	Total
1960	84	45	7	312	448
1961	75	77	3	293	448
1962	67	72	3	340	482
1963	73	61	1	228	423
1964	82	84		262	428

Cerebral Palsy Clinic (Dr. William Cooper): Activities of the Cerebral Palsy Clinic can be briefly summarized. Clinics are conducted twice a week on Tuesday and Thursday with three physicians carrying out simultaneous examinations. New patients are presented to the entire clinic staff at the Thursday clinics. Evaluation of new patients involves participation of fourth year medical students and pediatric residents in addition to the clinic staff. A monthly case conference is held in the Lecture Hall for the interest of residents and staff. A group program for children of nursery school age is conducted once weekly.

Since September 1, 1964, a consultation service for private patients has been conducted in the Cerebral Palsy Clinic by Dr. Cooper. This adds about 500 patients to the Cerebral Palsy register.

In addition to services at The Hospital

for Special Surgery, the Cerebral Palsy Clinic maintains a supervisory function in two other programs: 1) Cerebral Palsy Center of Nassau County for which the hospital has assumed responsibility for medical direction. This is a day-care program with an active case load of 1000 patients. At present the program is served by three members of our staff and is visited regularly by residents, fellows, and medical students. 2) HC20 classes at P.S. 199. This is a combined educational and medical program for children with severe orthopedic handicaps including cerebral palsy, poliomyelitis, congenital anomalies, etc. More than 50 children attend and approximately 50 percent of them are referred from The Hospital for Special Surgery. This activity has been under the direction of the Cerebral Palsy Clinic for more than 15 years. The hospital was originally designated in the New York City budget as the supervising medical agency.

Clubfoot Clinic (Dr. Alexander Hersh):
The following is a statistical report of
the Clubfoot Clinic for 1964

Clinic Attendance

Total number of new patients	82	
(Referrals from Children's Orthopedic Clinic.....)	75)	
(Referrals from other sources	7)	
Total visits	1636	
(First year revisits	259)	
(Revisits	1287)	
Admissions to the hospital	26	

Classification of New Patients

Equino-cavo-varus deformity	19	
Metatarsus adductus and varus	51	
Arthrogryposis multiplex congenita	1	
Valgus and calcaneo-valgus	8	
Plantar flexed talus	1	
Neurological	1	
Miscellaneous	1	
Total	82	

Analysis of Hospital Admissions and Operations

26 patients admitted and 41 operations performed		
Medial soft tissue release	13	
Posterior soft tissue release	19	
Triple arthrodesis	4	
Osteotomy tibia and fibula for internal rotation deformity ...	2	
Plantar fasciotomy	1	
Anterior tibial transfer	1	
Jones procedure, hallux	1	
Total	41	

CEREBRAL PALSY DEPARTMENT STATISTICAL REVIEW

Medical Examinations	1172	
New Patients evaluated	94	
Children	81	
Adults	13	
Re-Examinations	1078	
Psychological Evaluations	243	
Physical, Occupational and Speech therapy sessions	2743	
Physical Therapy	1376	
Occupational Therapy	770	
Speech Therapy	597	
Nursery group session (patient days)	179	
Brace Services		
Braces	80)	
Brace repairs	100)	yearly average
Wheelchairs	20)	
Other equipment (crutches, shoes, etc.)	200)	
Social Services (Interviews with patients, families and agencies)	1661	
Patients hospitalized (including Nassau County patients) ..	74	
Number of individual surgical procedures	155	
Tendo-Achillis lengthening	52	
Adductor tenotomy, obturator neurectomy	34	
Hamstring release	23	
Posterior tibial transfer	9	
Triple arthrodesis	5	
Femoral osteotomy	4	
Flexor release of forearm	4	
Patellar advancement	3	
Grice procedure	3	
Peroneal tendon transplant	3	
Pronator teres release and forearm tendon transfer	2	
Cross extensor tendon transfer	2	
Extensor release of wrist	1	
Hip flexor release	1	
Gastrocnemius recession	1	
Rhizotomy	1	
Proximal row carpectomy	1	
Hip flexor release	1	
Keller procedure	1	
Proximal phalangectomy	1	
Extensor repair, finger	1	
Flexor carpi ulnaris tendon transfer	1	

Demyelinating Diseases Clinic (Dr. Harold Wainerdi): The clinic continues to care for approximately 100 patients who are severely disabled with multiple sclerosis, one of the poorly understood diseases which is said to claim 250,000 victims in the United States. We are trying to learn how to care for such patients.

During the year 1964, there were 479 patient first visits and revisits to the Demyelinating Diseases Clinic, an increase of 11 percent over 1963.

Foot Disorder Clinic (Dr. Charles Dunbar): The majority of cases referred here receive long term care since most foot problems are handled in the regular children's and adult clinics. One orthopedic resident and one fellow are usually in attendance with a resident and Dr. Royal Montgomery from the Roosevelt Hospital Dermatological Service. Progress in this clinic is reported.

Hand Clinic (Dr. L. Ramsay Straub): The Hand Service at The Hospital for Special Surgery has continued its steady growth in the last year. During 1964 there were 1,620 clinic visits, including 260 first visits.

The table below indicates the broad scope of conditions treated surgically, though the vast majority of patients did not require operative treatment.

There has been increased cooperation with the Department of Physical Medicine and especially the Section on Occupational Therapy in the production of splints and the supervision of rehabilitative exercises.

Clinic sessions have been doubled during the year, and the service continues to have conferences each Thursday. The Hand Clinic has been staffed by Dr. Rolla Campbell and Dr. Allan Inglis from the Orthopedic Service and by Consultants in Plastic Surgery, Dr. Herbert Conway, Dr. John Dorsey and Dr. James Smith. Dr. Richard Braun was a Fellow in hand surgery for the first half of 1964 and Dr. Claude Williams for the last six months.

The following Residents in Orthopedic Surgery rotated through the Hand Service during 1964: Dr. David Levine, Dr. Henry Sprague, Dr. Joel Adler, and Dr. Kirk Watson and from the Plastic Surgery Department of The New York Hospital, Dr. William Cocke and Dr. Norman Hugo.

Operations Performed on the Hand Service

Tendon transfers	22
Congenital deformities	23
Burns and scar contractures	31
Tendon grafts	15
Infections (drainage)	10
Ganglia	16
Trigger fingers	17
Dupuytren's contracture	19
Rheumatoid hand problems	34
Rheumatoid dorsal wrist	24
Rheumatoid volar wrist	5
Peripheral nerve repair	14
Tumors	23
Carpal tunnel release	22
Fractures, osteotomies and joint fusions	19
Wrist arthrodeses	8
Flexor tendon release in the forearm	5
	<hr/>
	307
Hand operations on Orthopedic Service	108
	<hr/>
	Total 415

Hemophilia Clinic (Dr. William Arnold): Patients with hemophilia and allied diseases frequently have serious orthopedic problems secondary to bleeding into or about the joints. A clinic meets regularly to see patients with this problem. About 25 patients have been treated over the past year, usually with bracing, physiotherapy or plaster casts. Treatment with plasma has been carried out in conjunction with the hematologists in attendance. Many of the severe deformities previously found in these patients are occurring much less often today as a result of prompt and adequate treatment. The primary aim of our therapy at The Hospital for Special Surgery is to keep children and adults with hemophilia active in school or at work and to avoid the necessity of hospitalization.

Hip Clinic (Dr. Philip Wilson, Jr.): There were 73 new patients visiting the clinic during the year and 851 revisits. Although follow-up of patients has improved, it still is far from perfect and many patients receive their aftercare in the afternoon orthopedic clinics. It has been especially difficult to register children with hip problems. For instance, many children with slipping of the capital femoral epiphysis and Legg Perthes disease are never referred because they are either correctly admitted directly to the hospital or because the treatment indicated has become standardized.

Twenty-eight adult patients were treated in the hospital and 18 children. Plans are continuing for the improve-

ment of the filing and indexing systems. Thanks to a substantial donation from a grateful patient, it may be possible to have an office with fulltime secretarial help.

Operations Performed on the Hip Service

28 adult patients were treated in the hospital	
Arthroplasties	17
Trochanteric osteotomies for osteoarthritis	3
Arthrodesis	1
Transfemoral neck grafts	2
Iliopsoas transfer	1
Miscellaneous	4

18 procedures were performed on 16 children with congenitally dislocated hips

10 procedures were performed on 10 children with slipping of the capital femoral epiphysis

Metabolic Bone Disease Clinic (Dr. Paul Saville): This year Doctors Khar-mosh, McPherson, Nilsson and Nor-cross attended the Metabolic Bone Disease Clinic. In order to maintain some consistency of records, a standardized case history format was typed out and made available in the clinic so that all fellows could take histories, leaving out no essential data.

Worksheets have been designed in the past year and are made out for every new patient. Basic information is filled in and the worksheets are now kept in alphabetical order.

A method for quantitating osteoporosis has been used for the past year which makes it possible to quantitate the amount of osteoporosis with a fair degree of uniformity.

In the Research Laboratory, a method for estimating serum and urinary calcium has been established. Serum was obtained from the Department of Health from normal people and the average serum calcium plus or minus two standard deviations from the average was established.

In addition, determinations of serum inorganic phosphorus are carried out. In this way the serum calcium and phosphorus as well as the urine twenty-four hour excretion is checked on every patient attending the clinic without extra charge to the patient. This increases patient cooperation.

The calcium method is a particularly good one; it was established by Dr. McPherson. It has the advantage of being accurate and reproducible as

well as being semi-automatic and recorded on graph paper so that the result can be read by anybody at anytime after the estimation has been done; moreover, results may be obtained within two or three minutes of obtaining the serum and one specimen can be estimated every two minutes.

During the year, two clinical papers were written from the Metabolic Bone Disease Clinic and submitted for publication. The first deals with normal phosphatase in the presence of active osteomalacia. The second reports milk intolerance and lactase intolerance in patients suffering from osteoporosis. We have obtained indirect evidence suggesting that about one-third of patients with osteoporosis have absence or decrease in intestinal lactase (an enzyme which digests milk sugar).

In addition to the above studies, a series of calcium absorption experiments using minute doses of calcium 47 in milk is being carried out. Some patients are noted to have impaired calcium absorption. If it can be demonstrated that these patients also lack intestinal lactase, calcium absorption could be linked to lactase deficiency. As this project gets underway, Dr. Weser from The New York Hospital's Gastroenterology Department will take intestinal biopsy samples for estimation of enzymes and electron microscopy. In the coming year, it is hoped to: 1) Expand the clinic. 2) Categorize the patients and quantitate their disease. 3) Carry out various investigative studies and interpret results in terms of two. 4) By utilizing results of research, make treatment available which might be unavailable else where and so attract more patients to the clinic.

Neuro-Muscular Diagnostic Clinic (Dr. Joseph Moldaver): The purpose of the clinic is to combine diagnostic work-up with research in neuro-muscular diseases. As a result, additional information has been gathered in muscular dysfunctions frequently encountered in the collagen diseases. Patients from this hospital as well as from other hospitals such as the Rockefeller Institute have been investigated, using the different electro-diagnostic techniques. Some of the diseases of basal ganglia, such as dystonia musculorum, have been treated with chemotherapy with some encouraging results. This work started three years ago, is continuing.

During the year residents or fellows have been assigned to the clinic for neurological as well as for electrodiagnostic training. Also, at the request of the Neurological Department of the Albert E. Einstein Medical College, two fellows have received basic training in the electrodiagnostic testings during the year.

Scoliosis Clinic (Dr. John Doherty): The Scoliosis Service had 102 admissions to the hospital in 1964 and 31 patients underwent surgery for a total of 50 operations. In the Out-Patient Department, there were 727 visits. One hundred twenty two of these were made by first-time patients and the other 605 were revisits.

By and large, the turnbuckle plaster cast remained the usual method of reducing and holding the spinal deformity until a solid, mature spinal arthrodesis could be obtained. Reduction of the spinal deformity by spinal instrumentation was done on two occasions with an associated arthrodesis. Two patients were admitted to the hospital for the fitting and adjustment of a Milwaukee brace.

Dr. Konstantin Veliskakis returned to Athens, Greece, following a long and valuable association with the hospital and the Scoliosis Service.

DEPARTMENT OF LABORATORIES (Dr. Robert Mellors)

On July 1, 1964, Dr. Leon Kutner joined the staff with a dual appointment as microbiologist in the Departments of Laboratories and Research. Doctors Mayer, Umberger, and Korngold have continued their supervisory rolls in hematology, biochemistry, and immunology and have participated in teaching and original research.

Mrs. Norma Bender, chief technologist, is the supervisor of an outstanding group of technologists and technicians who continue to perform more and more work of high quality. The total number of laboratory examinations in 1964 was 83,320, a 15 percent increase over the preceding year and a nearly 100 percent increase over 1958. These increases have occurred in all categories — hematology, chemistry, urinalysis, serology, bacteriology and electrocardiography. A shortage of laboratory space has placed a limitation on present services and on plans for future development of more services. An ex-

panded work week, the addition of more personnel at the technological and professional level, automation in biochemical procedures, broad-spectrum serology and better facilities for gross and microscopic photography are among the high priority needs.

Some of the pathological diagnoses made during the period 1958-1964 and based on 4,432 of the nearly 10,000 biopsy and surgical specimens received include: benign bone tumors, 209; malignant bone tumors, 107; metastatic cancers in bone, 66; tumor-like lesions of bone, 54; benign tumors of soft parts, 311; malignant tumors of soft parts, 36; carcinomas and other malignant tumors, 74; osteomyelitis, 172; osteoarthritis, 447; manifestations of rheumatoid arthritis, 251; herniated disks, 508; torn menisci, 472; synovitis, 467; exostoses, 394; ganglions, 214; osteochondritis and loose bodies, 163; tenosynovitis, 145; aseptic necrosis of bone, 91; bursitis, 85; contractures, 60; villonodular synovitis, 38; popliteal cysts, 35; and calcific tendinitis, 22.

Laboratory Examinations Done during 1964

Hematology	34,644
Urinalysis	16,044
Chemistry	14,700
Electrocardiograms	1,738
Basal metabolism	47
Vital capacity	59
Spinal fluid	431
Body fluids	227
Serology	10,031
Bacteriology	5,399
Total	83,320

Laboratory tests performed at Memorial Hospital for Cancer and Allied Diseases 4,925

DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION (Dr. Anna Kara)

This department again reports an increase in the number of treatments: 37,545 compared with 36,995 for 1963.

Outside activities consisted of giving treatments at Memorial Hospital for Cancer and Allied Diseases, and at the request of Department of City Hospitals, service at the James Ewing Hospital was started. There 352 treatments given at Memorial and 280 treatments at James Ewing.

Dr. Willibald Nagler, a Resident in Physical Medicine and Rehabilitation, completed his training of one year on December 31, 1964. The department

continued to train physical therapy students from Columbia University.

Occupational Therapy saw 277 patients who received 2886 treatments, an increase of 529 over the total number for 1963. The growth of the Hand Clinic was responsible in large part for this increase. Two students from New York University were trained in occupational therapy this year.

DEPARTMENT OF ANESTHESIA (Dr. Charles Burstein)

Three full-time physician anesthesiologists and one nurse anesthetist constituted the staff in 1964. The availability of the Recovery Room during the afternoon and throughout the night has added a great deal to the efficiency and care of the postoperative patient. During 1964, 2,205 cases received 1,818 general anesthetics, 198 regional blocks, 5 spinals, and 184 local anesthetics.

DEPARTMENT OF RADIOLOGY (Dr. Richard Freiburger)

There has been an increase (approximately 5 percent) in total work performed over the previous year. This, plus the fact that operating rooms are now staffed into the afternoon and on weekends, has necessitated an increase in the staff of the X-ray Department. During 1964 there has been a rise in the number of special examinations, such as myelograms, discograms, tomograms and arthrograms, performed. A pilot project is being performed on knee arthrograms for the diagnosis of torn cartilages, a procedure requiring the injection of a contrast substance into the knee prior to the film examination. Over a hundred of these studies on the knee have been performed in the past year and some of the other large joints of the body have been similarly investigated.

Two small offices in the department have been combined to make a conference room and two motor driven viewboxes, each capable of holding 300 films, are in use. These facilities will make possible a daily x-ray conference to review all films taken that day. This will improve teaching and patient care. Dr. Paul J. Killoran visited several radiology departments in Sweden during August; Dr. Robert H. Freiburger and Dr. Killoran had exhibits at the Academy of Orthopaedic Surgeons meeting in Chicago and participated in the Radiological Society meetings.

Plans are being made to provide a television monitored image intensification x-ray system for the operating room which will obviate the time wasted while waiting for the development of x-ray film.

Special X-ray Examinations during 1964

Portables on floor	166
Operating and recovery room	262
Fluoroscopies	370
Myelograms	174
Tomograms	118
I.V.P.	172
Gall bladders	90
Injections into joints and sinuses ...	25
Skeletal survey	88
Venograms	3
Arthrograms	156
Needle biopsy	12
Discograms	6
Cholangiograms	11
Nephro-tomograms	1
Arteriograms	7
Magnification views	1
Total	1,662

DEPARTMENT OF RHEUMATIC DISEASES (Dr. Richard Freyberg)

The Department continued to be active with about 35 to 40 service and private patients hospitalized at all times. The rotation of house officers from the Department of Medicine at the New York Hospital has proven to be very satisfactory. The out-patient service holds a clinic four mornings a week and during the year there were 6,313 visits to these clinics. The weekly Rheumato-Orthopaedic Conference has been very stimulating to the staffs, of the Orthopedic and Rheumatic Disease Departments.

The following changes in staff occurred during 1964. George Ehrlich, M.D., resigned to become Director of the Rheumatic Disease Service of the Albert Einstein Hospital, Philadelphia, Penna., and to conduct research in rheumatic diseases at that hospital and Temple University Medical College. Harry Bienenstock, M.D., resigned to become Director of the Section of Rheumatic Diseases at Coney Island Hospital in affiliation with the Downstate Medical College, Brooklyn, New York. Joaquin Soler-Bechara, M.D., finished his fellowship and returned to his home in Puerto Rico to participate in teaching medicine in the University and practice medicine, specializing in rheumatology. Karl Keller, M.D., of

Kansas City, Missouri, was appointed a Fellow in Rheumatic Diseases.

Through the generosity of Mr. Joseph Routh, the Joseph P. Routh Fund for Research in Arthritis and Paget's Disease was established.

Statistics for Department of Rheumatic Diseases during 1964

Patients admitted to the hospital	510
Deaths	13
Autopsies	6

PEDIATRIC DIVISION (Dr. Helen Harrington)

The pediatric consulting service assists in the medical care of children under the age of 17 years. Each month a pediatric resident from the The New York Hospital is assigned to attend both in and out-patients. Twice a week he also supervises students working up patients referred to the Cerebral Palsy Clinic. A pediatric medical clinic is held on Friday mornings for follow-up of patients discharged from the hospital and for work-up of patients referred from the orthopedic clinic. During 1964 there were 62 new patients and 90 revisits.

UNDERGRADUATE MEDICAL EDUCATION (Dr. Allan Inglis)

Courses in orthopedic surgery are presented during the second, third and fourth years of Cornell medical education. During the second year of medical school, a concentrated course in Physical Diagnosis is given to the students as a preparation for the clinical studies following in the third and fourth years. During the third year, the class is divided into three groups, each attending a twelve-week course. Each group, averaging thirty students, is further divided into groups of about eight which are assigned to various members of the attending staff of the Out-Patient Department. Under careful supervision, the students are instructed in the techniques of history-taking and physical examination. To implement and expand the Out-Patient Department experience, the students attend twelve didactic lectures given by various members of the staff. Finally, during the fourth year of study at the Cornell Medical College, another course is offered as an elective. This course is open also to students from other medical colleges and is

designed to develop the individual student's particular interest, whether it be in research, neurology, children's orthopedics, adults orthopedics or a combination of these.

VETERANS ADMINISTRATION HOSPITAL (Dr. Bernard Jacobs)

The Hospital for Special Surgery is responsible for the Orthopedic Service at the Bronx Veterans Hospital and our residents spend ten months out of their

training program there. Constant liaison with The Hospital for Special Surgery is provided by Dr. T. Campbell Thompson, Dr. P. C. Rizzo, Dr. S. Eichenholtz and Dr. L. R. Straub who are Consultants. At least two of these Consultants are present at the weekly Wednesday conference where interesting pre-operative cases are presented for discussion. In addition, the Consultants are available when required for certain operative procedures. On Fridays the

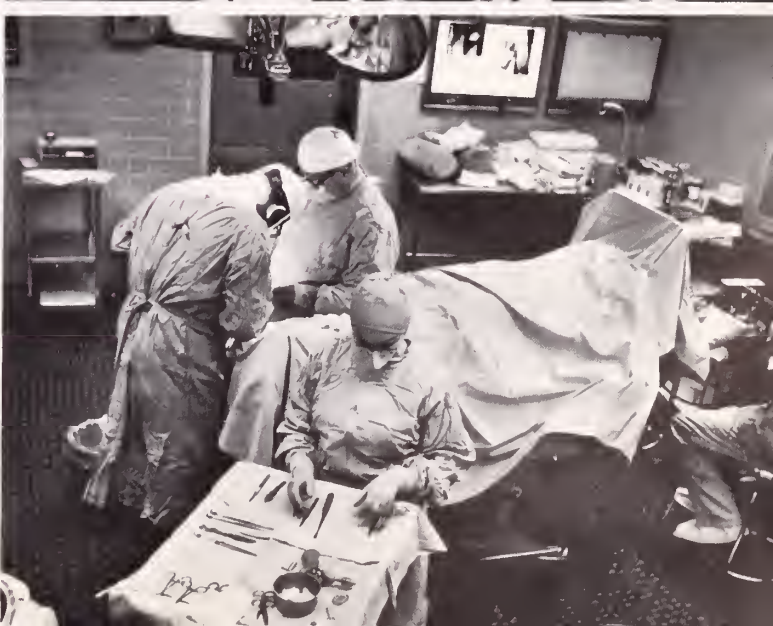
staff, accompanied by the Physical Medicine Service, conducts Grand Rounds, seeing every patient.

The Orthopedic Service has 70 beds. In 1964, 737 patients were admitted, 232 operations performed, 489 consultations performed at the request of other services and some 3,000 consultations carried out at the request of the admitting physicians. In addition, 301 patients were examined in the monthly Follow-up Clinic.

Respectfully submitted,

Robert Lee Patterson Jr.

Robert Lee Patterson, Jr., M.D.
Surgeon in Chief





Göran C. H. Bauer, M.D.
Director of Research

REPORT OF THE DIRECTOR OF RESEARCH

Research is at a disadvantage when it comes to the Annual Report; research activities do not have any easily understandable system of units such as patient days, number of operations, or cafeteria meals served. If we try to record progress in terms such as papers published, number of people participating in the program, or worst of all, our annual budget, we will rapidly fall into a trap which has been popularized by Professor Parkinson in his well known "Parkinson Law"! Finally, if we try to record progress in terms of new activities or added laboratories, it is likely we will miss the mark since more progress has probably been made in laboratories which have existed here for several years.

I shall therefore abstain from quoting administrative statistics in the hope that you will base your continued faith in research activities here on an extrapolation into the future of what we have and what is going on at the present time. Today the five floors of the research building are occupied by bona fide research activities. On the first floor, Dr. Olsson has arrived as the Head of the Laboratory for Comparative Orthopaedics, and he is the first professor with that title in the world. Dr. Olsson is completing plans for certain

reconstruction on the animal floor, to be completed by September, 1965.

Also, on the fifth floor we hope to start construction of that half of the floor which was left incomplete when the building was erected. Laboratories for Biometrics and Nuclear Medicine will be completed by March, 1966.

The second floor which was constructed and completed during the last year has already proven itself as a most useful unit. Approximately one-half of the cubicles are now occupied with young orthopaedic surgeons from this country and from abroad who are working on various clinical and research problems. I believe one can already see how this second floor will become the hub where research and medical care will meet and it will provide the incentive for more clinically oriented individuals to make the trip over to the research building.

During the last year Dr. Mellors has launched a major study of autoimmune disease in a strain of mice imported from New Zealand. He started out with two pairs, now he has several hundreds; he is studying manifestations of autoimmune disease in these mice with the aid of his own techniques of immunofluorescence, and those of his collaborators, Dr. Korngold in immunology, Dr. Huang with the electron mi-

croscope, and Dr. Kutner, a new arrival here, who is a bacteriologist.

Doctor Posner has been quite successful in getting his program off the ground and it is particularly noteworthy that he has working with him four young Ph.D.'s and several Fellows in various capacities.

Doctor Saville has stepped up the activities of the Metabolic Bone Clinic and he has been able to carry problems posed by patients there over into the laboratories for further analysis. With the aid of a technique for measurement of calcium concentrations in the blood, refined by Dr. McPherson, he has been able to diagnose disease in patients in his clinic which would have otherwise escaped attention, or taken longer to diagnose.

I have mentioned these individual activities to emphasize that we are approaching the stage when true collaborative efforts will become feasible. We have working together people drawn from such diverse fields as orthopaedics and rheumatology, but also veterinary medicine, dentistry, immunology and pathology. We have utilized this diversity of interests in strengthening our ties with Cornell University Medical College and New York Hospital. We have now one or more staff members from our Institution

with regular appointments in the following departments at the Medical School: Surgery, Medicine, Pathology, Radiology, Microbiology, Physiology, Anatomy, Biochemistry and Public Health. This slow infiltration will make it possible for us to reach the students at all levels of their education with our

particular view on health and disease.

I will end with a few words on the fiscal aspects of all this. Research broke even last year: I think it's time to mention that the easiest way to make research break even is to do nothing, and reflects that we are still in the building

up stage. I believe we will be leaving that the fact that we did break even that stage soon and I hope you will find that research in the future will be needing more funds. In this particular area this is a healthy sign.

Summaries of achievements in individual laboratories in 1964 follow.

RESEARCH PROJECTS

A. DIVISION OF RHEUMATIC DISEASES — Richard H. Freyberg, M.D.

Evaluation of the comparative effectiveness, difficulties and limitations of various anti-inflammatory agents used in treatment of rheumatoid arthritis and allied diseases—an ongoing co-operative investigation—continued to yield information of practical importance. Two new potentially valuable drugs have been added to the group being studied—*dimethyl sulfoxide* used topically for various connective tissue lesions, and *allopurinol*—a xanthine oxidase inhibitor—useful in the treatment of gout. Each is being critically evaluated in respect to effectiveness and troublesome side effects. The interrelation of the diffuse connective tissues—"collagen"—diseases—particularly in respect to similarities and differences in their clinical, immunologic and serologic aspects, is being studied to improve means of recognition and treatment of these illnesses. In these clinical investigations many of the staff participate including Dr. Karl Keller, Fellow in Rheumatic Diseases, who has also prepared a protocol for studying the effect of radioactive gold injected intraarticularly in patients with rheumatoid arthritis in collaboration with the radioactive isotope research unit of the orthopedic department, when approved by the A.E.C. authorities. Evaluation of the effectiveness of prolonged "maintenance" gold salt therapy for rheumatoid arthritis has been completed by Dr. Soler-Bechara in collaboration with Dr. Kammerer, Squires, Rogoff and Freyberg; a preliminary report of findings was made at the Fourth International Conference on Rheumatic Diseases in Aix-les-Bains, France in June, 1964. Certain specific projects being

conducted by members of the rheumatic disease staff will be separately described by the responsible investigators. Plans for development of an expanded integrated program of research oriented to problems of rheumatic disease are materializing, and it is hoped this work will begin during the coming year.

1. LABORATORY FOR SEROLOGICAL STUDIES IN CONNECTIVE TISSUE DISEASES — William C. Robbins, M.D.

During 1964 studies continued on the subjects described in detail in last year's report. A correlative analysis is being carried out on the serological abnormalities in systemic lupus erythematosus, systemic sclerosis (scleroderma), Sjogren's syndrome, polymyositis, and polyarteritis nodosa, with special reference to antinuclear antibodies, anti-DNA antibodies, anti-gamma globulin ("rheumatoid") factors, and total gamma globulin levels. Correlations are being made between the serological findings and other laboratory findings and the clinical features, with the view of determining the significance of the serological abnormalities for diagnosis and prognosis in these diseases.

Studies continue also on the incidence of antinuclear and anti-DNA antibodies in the random "normal" population; on the interrelationship of antinuclear antibodies and the chronic false positive reactions for syphilis; on the occurrence and significance of autoantibodies and gamma globulin abnormalities in the relatives of patients with

systemic sclerosis; and on the special significance of anti-DNA antibodies.

2. LABORATORY FOR STUDY OF COLLAGEN — Sidney Rothbard, M.D., and Robert F. Watson, M.D.

The long-term study of the immunologic relationships among various animal collagens has been completed and is being prepared for publication. The significant observation that collagen exhibits species specificity, initially demonstrated in this laboratory, has been confirmed by other reports in the literature. Immunologic differences among collagens presuppose differences in chemical structure of the collagen molecule. Differences in amino acid composition are known to exist among collagens from different animals. The variation in the hydroxyproline content of the collagens in our study agrees with these observations.

Since the antigenicity of human collagen has been demonstrated antiserum to human collagen is being used to study the collagen in subcutaneous nodules from patients with rheumatic fever or rheumatoid arthritis, heart tissues from rheumatic fever patients, and kidneys from patients with connective tissue diseases.

The viscosity and spontaneous precipitation of our purified acid soluble collagens at pH's approaching neutrality or in the presence of various salts and polysaccharides have prevented the use of agar diffusion or immunoelectrophoretic technics to determine whether multiple antibodies to collagen are

present in the antisera. Attempts are being made to alter the physical state of collagen without affecting its antigenicity so that these methods may be applied.

The structure of the avian renal glomerulus with a large central cell mass

differs from that in mammals, and the pattern of fluorescence in the chicken of injected homologous antibody to collagen also differs. To establish in detail the location of collagen in the chicken glomerulus, further studies are being done.

The differences in antigenicity found among animal collagens, presumably based on differences in chemical structure, show that immunologic methods provide an approach to the problems of biosynthesis, developmental changes, and pathological defects of collagen.

B. DIVISION OF EXPERIMENTAL PATHOLOGY—Robert C. Mellors, M.D., Ph.D.

The division includes laboratories for research in molecular and immunopathology (Dr. Mellors), immunology (Dr. Korngold), ultrastructure (Dr. Huang), and microbiology, the latter under the direction of Dr. Leon Kutner who joined the staff on July 1st.

1. LABORATORY OF MOLECULAR AND IMMUNOPATHOLOGY (Robert C. Mellors, M.D., Ph.D.)

a. **Autoimmune Disease.** Immunological mechanisms, including autoimmunity, contribute to the development of rheumatoid arthritis and other diseases of man. A long sought experimental model of autoimmune disease has been discovered by scientists in New Zealand, and they have kindly sent us breeding stock for the establishment of a colony of these animals—NZB/B1 mice—for use in our research. These have been reared successfully and have generated a large colony of mice. The evolution of immunological abnormalities and associated diseases are under investigation and comparisons are being made with events in human disease.

Special credit is due Miss Dolores Landy, Miss Elinore Abravanel, Miss Barbara Bosco, Miss Susan Sherman, Mr. David Bardell and Mr. Louis Dienes, as well as members of the animal care division. This work was supported by the United States Public Health Service, Institute of Arthritis and Metabolic Diseases.

b. **Immunopathology of Rheumatoid Arthritis.** The factors which perpetuate, if not initiate, the inflammation of joints and destruction of cartilage in rheumatoid arthritis are now coming into sharper focus. Rheumatoid factor, formed as shown in this laboratory by plasma cells in the joint lining presumably in

response to antigenic or autoantigenic stimulation, is ingested (phagocytized) by inflammatory cells which are attracted to this site—as we have observed by immunofluorescence—and which emigrate into the synovial fluid, as others have shown. These inflammatory cells, pushed to their phagocytic capacity by the constant local formation of macromolecular complexes of rheumatoid factor and antigen, probably break down and liberate hydrolytic enzymes which destroy the cartilage of the joint. The probable sequence of events in rheumatoid arthritis is then: antigenic stimulation, rheumatoid factor formation, attraction of phagocytic cells, digestion of macromolecular complexes, liberation of cellular enzymes, digestion of articular cartilage, deforming arthritis. Of course, it will take much effort in many laboratories in various parts of the world to explore, and if true exploit (for the patient's benefit), this pathogenic concept.

c. **Electron Probe Microanalysis of Tissues.** This program continues as before. The analysis of Ca/P molecular ratios in human cortical bone, over a wide range of ages, was completed and published. The ratio was found to be close to expectation for hydroxapatite (10:6). A new probe, our definitive instrument and a replacement for that initially used, was installed and found to have superior performance. Methods of sample preparation were improved and then an analysis of Ca/P molecular ratios in human cancellous bone, (vertebra and rib) was undertaken. These studies are in progress and show interesting and unexpected results, which are now subject to confirmation.

This work was undertaken with the

assistance of Todd Solberg and was supported by the United States Public Health Service, Institute of General Medical Sciences.

2. IMMUNOLOGY—Leonhard Korngold, Ph.D.

During the last year we continued our studies on the immunoglobulins. These are the proteins that are involved in immunological reactions; that is, the antibodies. Our studies were primarily concerned with possible changes in these immunoglobulins during disease, especially during multiple myeloma which is a malignancy of the plasma cell resulting in lytic lesions in the skeleton and macroglobulinemia of Waldenström, another malignancy of the plasma cell often accompanied by osteoporosis. Our studies are primarily concerned with the possible abnormal nature of the proteins produced in these neoplastic diseases. Additional evidence has been gathered which suggests that these proteins are indeed, abnormal. The new information is being used for the further refinement of diagnostic tests for these two diseases.

Finally, we have been engaged in analyzing the sera from the NZB mice, studied by Dr. Mellors. These sera were analyzed by immunoelectrophoresis in order to define the changes in the various serum proteins that take place during the aging of these animals.

3. ELECTRON MICROSCOPY LABORATORY—Chen Ya Huang, Ph.D.

The major research effort was concentrated on the study of the normal and pathological ultrastructure of tissues of NZB mice, particularly on the fine structural changes which occur in injurious immunological reactions. The results obtained so far indicated that

the basement membrane region in the renal glomeruli—a known locus of connective tissue antigens—is a major target of immunological reactions. The detailed sequence of morphological changes is still under investigation. Our goal is to elucidate the site and nature of these changes at a high level of ultrastructural resolution.

This work was supported in part by a research grant from United States Public Health Service, Institute of Arthritis and Metabolic Disease.

C. DIVISION OF ULTRASTRUCTURAL BIOCHEMISTRY—Aaron S. Posner, Ph.D., E. D. Eanes, Ph.D., J. M. Stutman, Ph.D., P. J. Tannenbaum, D.D.S., and I. H. Gillesseen, Ph.D.

The studies of the aging of bone were continued this year. The apatite of rat bone was shown to stabilize chemically with age concomitant with crystal growth. A series of experiments were begun to follow the effects of low calcium diet, vitamin-D deficiency, immobilization of a limb, and other factors, on the chemical and crystalline nature of rat bone. Preliminary results indicate that bones of diseased animals differ from normal bones.

A study was initiated on the kinetics of nucleation and growth of synthetic hydroxyapatite. The earliest phase which separates from solution in the precipitation of hydroxyapatite is "non crystalline" calcium phosphate with a material slowly changed to hydroxyapatite at a rate dependent upon the reaction temperature. An understanding of this transition phase may help explain the poor crystalline nature of bone apatite in freshly formed bone. In this regard, a detailed study of the x-ray diffraction profile of young and old rat bone is in progress. The exact shape (Gaussian, Cauchy, exponential, etc.) of the maxima yields information about crystal size and perfection. A final program in this field is a crystal analysis of cortical and medullary pigeon bone with regard to changes accompanying the estrogen cycle. Early

4. LABORATORY OF MICROBIOLOGY—Leon J. Kutner, M.D., Ph.D.

A program has been initiated to investigate the role of the thymus in mediating immunological capabilities of lymphoid tissue *in vitro*. Others have established that some species of animals thymectomized at birth suffer immunological deficiencies in later life. It was not clear if the thymus contribution was cellular or humoral or both.

The model system under development uses mixed tissue cultures of mouse

thymus and lymphoid organs from mice immunized with bacterial virus T2. The thymus effect is demonstrated by measuring the change in T2 neutralizing antibody produced by the lymphoid tissue after secondary stimulation with that virus. In other experiments the thymus is replaced by its cell-free media or tissue extracts.

Definite results have not been obtained to date but it is hoped that this system will reveal function of the thymus or its secretions at the cellular level.

results point to medullary bone as the less stable system.

Spectroscopic studies were performed on a series synthetic calcium phosphates and detailed study of the energy levels in the orthophosphate group is nearing completion. The infrared absorption spectrum of the PO_4 group changes with the chemical milieu in which this ion is placed. Identification of spectra of known compounds will aid in identifying the role of PO_4 in the structures of hard tissue apatites and other mineral phosphates. It was by the use of this technique that it was possible to follow early changes in the "amorphous" calcium phosphates long before it was possible to measure this crystallization by x-ray diffraction.

A statistical study was performed on data previously collected in this laboratory on the effect of fluoride ingestion on human and rat bone. The work showed that control (i.e., low fluoride) rat bone apatite crystals are smaller than the crystals of the same bone type in the human species. In addition, the human and rat bone apatite crystals grew at the same rate with increasing *in vivo* fluoride deposition.

Microradiographic techniques were developed for studies on decalcification

of dental enamel. A study has been initiated on so-called enamel "white spots", (i.e., early caries lesions). Using microradiography it is planned to assay the effect of various remineralization experiments.

Another dental project has been a study of the separation of enamel and dentin by flotation in heavy liquids of specific gravity lying between the density of these two tissues. It was shown that this classical preparative technique does not provide a dentin sample free enough of enamel contamination for crystallographic studies. Unfortunately, surgical separation of enamel and dentin by grinding seems to produce a specimen with structural defects. It is hoped that further work will uncover a preparative method which will produce undistorted specimens of enamel and dentin for crystallographic studies. The results of these studies will aid in preparing bone density fractions by similar methods for crystal studies on bone tissue.

Crystal syntheses by means of hydrothermal technique have been continued on a routine schedule. X-ray and neutron diffraction studies are continuing on mineral and synthetic calcium phosphates.

D. LABORATORY FOR BIOCHEMISTRY—H. E. Firschein, Ph.D.

In June of 1964 a Biochemistry Laboratory was organized under the direction of Dr. H. E. Firschein. This unit occupies

the northeast corner of the fourth floor in the research building. The primary aims of this unit are: (1) to study cal-

cium, Collagen, and mucopolysaccharide metabolism in relationship to the action of the parathyroid hormone and

vitamin D, (2) to develop tests for study of metabolic function in various bone diseases.

A fairly complete laboratory has now been set up and organized. The acquisition of a three channel liquid scintillation spectrometer for tracer studies with soft B emitters is particularly noteworthy.

Analytical methods are now being developed which will enable us to proceed with the studies listed above. Methods have also been devised for studying the level of alkaline phosphatase in bone. Studies are now being carried out to determine if enzyme levels are affected by PTH or vitamin D. In addition, in col-

laboration with Dr. Saville, plans are being made to use this method in the evaluation of various bone diseases. In collaboration with Dr. Nilsson, studies are in progress on collagen metabolism after fracture. Studies are also being undertaken in collaboration with Dr. Posner.

E. TRANSPLANTATION LABORATORY — Eugene M. Lance, M.D.

1. SURVIVAL OF PATELLA HOMOGRAFTS IN THE RABBIT.

This study involved a comparison of the ability of the articular cartilage of patella autografts and homografts to withstand transplantation. These were relatively acute studies since the longest period of observation prior to sacrifice was 3 months. Within these limitations the articular cartilage was observed to survive grossly and microscopically although certain features indicated that the homograft might not

have fared as well as the autograft.

It is intended to carry these studies further by longer term observations under the stress of function and to study the effect of prior immunization.

2. INTRACRANIAL ENDOCRINE HOMOGRAFTS IN THE DOG.

Work previously undertaken using the parathyroid gland in the rat, rabbit, and the dog has been continued. The major emphasis at the present time involves a

carefully controlled study in dogs using thyroid graft material. The attempt here is to confirm the long term histological survival of this tissue and to establish whether physiological function is present.

The hypothesis that function may be a more sensitive index of biological acceptance than histological survival which was suggested by our previous study is to be further tested in the work currently under way.

F. LABORATORY FOR STUDY OF BONE METABOLISM — Paul D. Saville, M.D.

1. A bone biopsy study was completed by adding a subsidiary study in which I compared the fat-free dry weight of a biopsy sample with the cortical thickness of the radial shaft measured from standard radiographs in cadavers and in patients with osteoporosis. The co-efficient of correlation was .608 $P < .001$, thus showing that not only are there bone changes in male and females which differ significantly from each other with age but that these changes occur both in iliac crest and also in the long bone of the forearm.

2. A study was started of the relation between osteoporosis and rheumatoid arthritis. Radiographs have been taken of one-hundred-sixty patients and a simple four class ranking order was allotted to the lateral lumbar spine based on clinical impression of bone density. Measurement of cortical thickness of the radius was also made. These studies can be divided into two sections:

1. A statistical approach to evaluation of the method.

2. The interaction of age, sex, disease and treatment on the bones of rheumatoid patients. This data is now being analyzed and will be submitted in two publications in the coming year.

3. Fifty patients with osteoporosis were questioned regarding their milk consumption. Sixteen stated that they could not drink milk. Eleven patients claiming milk intolerance and eleven controls were given a lactose tolerance test. The intolerant group had a flat blood sugar curve while the controls had a normal curve. The implication is that the former patients have intestinal lactase deficiency.

As a follow-up to this study, we are measuring calcium absorption in osteoporotic patients using calcium 47 in milk and calcium gluconate in an effort to demonstrate that lactase

deficiency impairs calcium absorption from milk in some individuals and is a contributory factor in osteoporosis.

4. The density of tibia and femur has been measured in a group of chronic alcoholic rats and their pair-fed littermate controls. In addition, the growth pattern was studied in these animals. The density of the femur and tibia was found to be less in the alcoholic animals; however, the density, calcium per cc of bone, and total calcium content of these bones was found to be a linear function of weight. When plotted against weight, covariant analysis revealed no significant difference between the scatter, slopes or intercepts of the regression in each group. The intercept of regression for tibias was less than that for femurs but the slopes were not different from each other either within or between the groups. Muscle magnesium was measured in the two groups of animals and

was found to be identical and normal in both cases. It was concluded that alcoholic animals on an adequate diet, though not growing so well as their pair-fed controls, have appropriate density of femur and tibia compared with their weights. Also, that alcoholism doesn't produce a deficiency of magnesium or of calcium provided the animals have an adequate diet. Alcohol slows the rate of growth and retards the ultimate maximum weight that the animals would obtain.

5. Changes in bone density of the tibia and femur were studied in the rat in relation to weight. When the re-

sults were graphed, the approach to a plateau value for density at about three months of age was clearly seen. This curve resembles that published for growth and the latter curve can be expressed by a simple growth formula.

6. An experiment was planned to study the effect of motor denervation on muscle and bone in the rabbit's hind limb. This work was carried out under my supervision by Dr. Oved Kharmosh and the results show that almost immediately following nerve root section there is atrophy of bone and muscle. There is a high degree of correlation between loss of bone

and muscle although bone loss is less than that of muscle. This atrophy continues until ten weeks after operation when it ceases. Isotope studies, using calcium 47, showed an increase in the accretion rate in the paralyzed side which continued until the end of the experiment. It was concluded that osteoporosis, following paralysis, starts almost immediately; is caused by an increase in bone resorption and this is later compensated for by an increase in bone accretion until both reach an equilibrium at about ten weeks. This is contrary to the generally held belief that muscle pull stimulates osteoblastic activity.

G. LABORATORY FOR NUCLEAR MEDICINE — Göran C. H. Bauer, M.D.

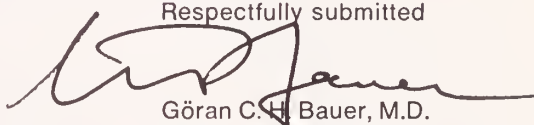
During the past year facilities for external counting of radioactive calcium and strontium have been organized on a pilot basis. Seventy-five patients with various types of bone lesions have been

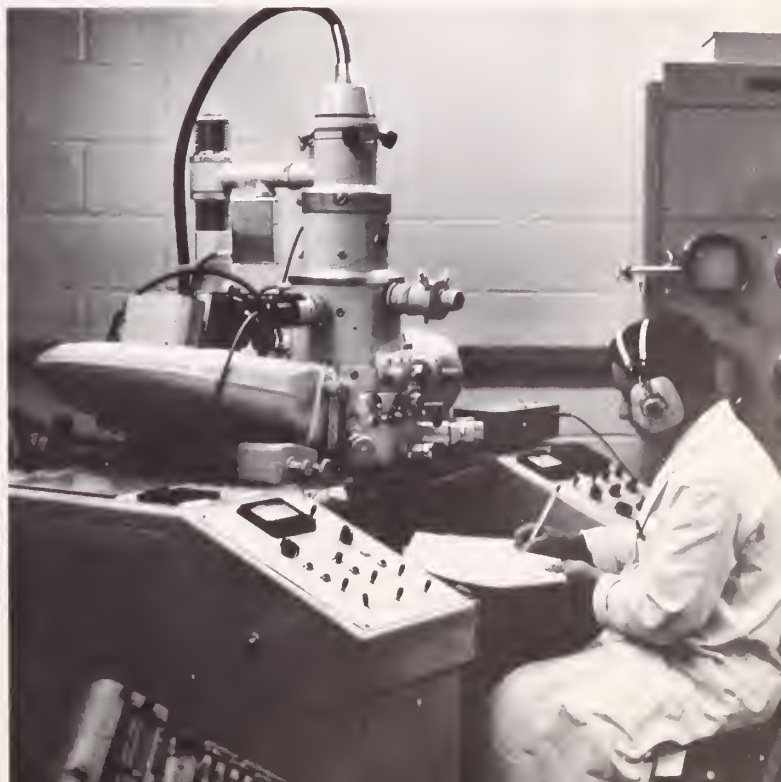
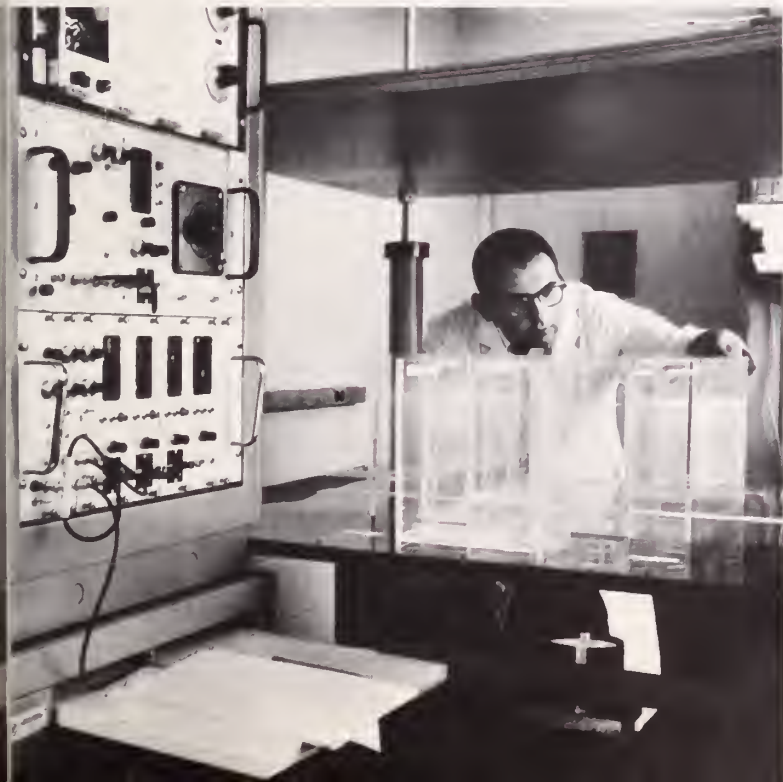
studied. In a few of these the tracer studies have contributed to the diagnosis or in the evaluation of therapy.

Dr. Nilsson has worked on problems re-

lated to fracture induced osteopenia, and Dr. McPherson has continued his work on the use of stable calcium isotopes as tracers in studies of bone metabolism.

Respectfully submitted


Göran C. H. Bauer, M.D.
Director of Research





T. Gordon Young
Director

REPORT OF THE DIRECTOR

The Hospital for Special Surgery in 1964 completed its most active year to date. In-Patient visits numbered 3,140 as opposed to 2,942 the year before. Clinic visits increased from 49,990 in 1963 to 51,939 in 1964; and first visits increased from 5,173 to 5,514.

In addition to increased patient loads, there were increases in the areas of income and expense, additional employees, higher salaries and increased expenses in equipment and in construction. Our 1964 revenues from operations rose to \$4,243,000 from \$3,622,000 in 1963, or an increase of \$621,000. Operating expenditures (excluding depreciation) amounted to \$4,597,000 in 1964 as compared with \$4,178,000 in 1963. We are happy to report, therefore, that the 1964 hospital operating deficit declined to \$354,000 as opposed to \$556,000 in 1963 or a decrease of \$202,000.

The Joint Commission on Accreditation of Hospitals again accredited our hospital for a period of three years and/or until a subsequent survey is conducted.

Our present employees' pension plan was modified in November to include a retirement plan for doctors holding academic appointments. The plan is under the Teachers Insurance and Annuity Association.

STAFF CHANGES

Mr. Walter Schulz returned to Special Surgery to accept the position of Research Administrator and Miss Virginia Roberts came to us as Director of Volunteers. We are pleased that they have joined our staff.

Four employees retired during the year. They are: Mrs. Agnes McCabe, Director of Volunteers, Miss Sarah Weber, Telephone Operator, Miss Bridie Flynn, Licensed Practical Nurse, Miss Hedwig Glogner, Brace Shop seamstress.

I am pleased to report that there were no staff deaths in the year 1964.

RENOVATIONS

In the Spring of 1964, we established for the first time since we moved into the hospital a 29-bed geographically self-contained orthopaedic unit and an 8-bed rheumatic disease service bed unit. The objectives for these newly created areas were to permit the housestaff to treat patients under their direct care in a centrally located area. It has permitted them to work more closely with the specific nursing staff responsible for these patients. It has eliminated wasted time and energy going from floor to floor and unit to unit to see and examine patients. Most important, it has resulted in a more efficient use of service bed occupancy.

To cope with an ever-growing hospital, physical changes were necessary in the Pharmacy, X-Ray, Medical Library and Clinical Laboratories. The Research Building expanded with the development of a whole new second floor.

A complete new innovation for the hospital this year was the installation of "Musicast" in the patients' waiting areas of our hospital. It has been most favorably received.

Early in the year, the Hospital experienced its second power failure in 9½ years. This failure was due to a main cable break on 71st Street. Our auxiliary system with New York Hospital worked as planned, but we learned one thing from this emergency interval—that our panel board switch in the new hospital was not constructed with a time delay device similar to the one put into the research building when it was constructed. The latter functioned in the emergency turnover, but the one in the hospital burned out. Needless to say, this was immediately replaced by a modern time delay mechanism. We are most grateful to the New York Hospital for making this service available to us in the event of city power failure.

SOCIAL EVENTS

The hospital's 1964 benefit, "The Centennial Gala" was held at the Top of

the Fair restaurant atop of the Port Authority, on April 23, 1964. It was the only benefit held after the official opening of the Fair. Thanks to the efforts and hard work of our Chairman, Mrs. Edwin Hilson, and the Benefit Committee, this was the most successful benefit, both financially and socially. It netted us a profit of \$58,000, and from all the comments made by guests leaving the party, it will be hard to top in future years.

The 15 & 25 Year Club Dinner was held in the Hospital on June 2. Of the club's 170 members, 105 attended.

"Encore 64", this years title to the em-

ployees annual Variety Show, was held at the Robert Wagner Junior High School. The critics' reviews were all in the positive — thanks to its producers, JO-KEM, Kitty Johnson and Mavis Kemble.

The hospital's annual dance was again held at the Essex House. Under the excellent supervision of Mr. Joseph Gaffney and his committee, it was an evening enjoyed by all.

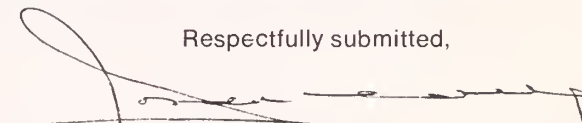
CONCLUSION

On May 25, 1965, the "Manhattan Transfer" to our new hospital will be 10 years

old. We have had definite growing pains all along the way. X-Rays of the situation were always taken. Consultants were always called in when necessary. Various tests were run, and we hope that many of the conditions were diagnosed, treated, or cured. Whatever the results were, the objectives were always the same — the highest standards of medical care for all those who seek our help.

To the Board, to the Professional Staff, and to the entire hospital I am immensely grateful. Without the assistance of any of the above this Annual Report would not be possible.

Respectfully submitted,



T. Gordon Young
Director





Mary Jeanne Clapp, R.N.
Director of Nursing

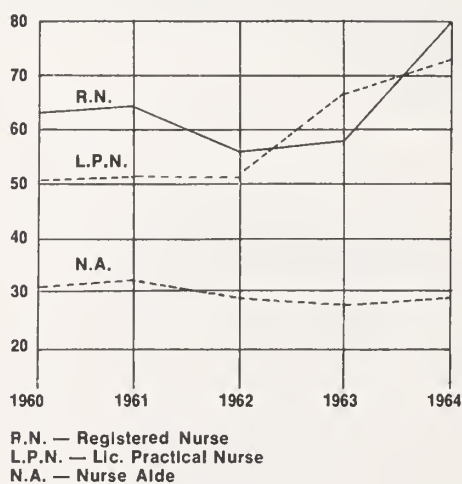
REPORT OF THE DIRECTOR OF NURSING

There is a certain treadmill quality about trying to maintain a nursing service in a busy hospital. Sometimes, but not too often, it goes around quite calmly and evenly. At other times, such as week-ends, vacation periods, times of excessive illness among personnel and very high patient census, there is a hectic scramble to try to keep up with the demands. Because of these day-by-day pressures it is sometimes hard to see what we have done to improve the over-all performance of the department in the attempt to give better care to our patients.

As will be seen elsewhere the hospital statistics for 1964 show that we were busier than ever before with an increase of 3,946 patient days, an increase of 80.94% bed occupancy in 1963 to 86.14% for 1964, and an increase of 1951 patient visits to our outpatient department. Fortunately, we were able to obtain more registered nurses than we have ever had before so we were able to adjust to the increased load. The following table shows the numbers of the different categories of nursing personnel over the last five year period.

This increase in numbers of registered nurses has had another effect on the hospital. It, together with salary increases for all grades of nursing per-

**Numbers of Full-Time
Nursing Personnel**



sonnel has increased our payroll by \$146,994.62. In 1963 the cost of all nursing personnel was \$977,727.93. In 1964 it was \$1,124,722.55.

In 1964 we expanded the services of our Central Sterile Supply department to keep our patient units better stocked with equipment and expendable goods. The department is now open 24 hours a day, 5 days a week plus the regular 8 hours on week-ends.

Probably the most appreciated innovation of 1964 occurred toward the end of September when we extended our

Recovery Room care for 24 hours a day 5 days a week. This allows for better care for those patients operated upon late in the day and also permits us to keep patients who have had extensive surgery such as spine fusion in the Recovery Room overnight. In this way they receive much better care than they would if sent back to their rooms to be cared for by a staff busy with many other patients or by a private duty nurse who may not be familiar with orthopaedic surgery. This extended service is much appreciated by patients, their families, the surgeons and the nursing staff. Along with this move we increased the size of the Operating Room staff to provide for elective surgery in the late afternoon and on Saturdays. This move was initiated to reduce the waiting time required to get surgery scheduled. Although we could not add more operating rooms, we could add to the time the existing facilities were utilized. All this, as well as moves made in other departments, is aimed at trying to halt the rising cost of hospitalization.

Our Nursing Education Department under Miss Dean Smith's very able direction has continued to flourish. Ninety-one students were admitted to our School of Practical Nursing and 74 were graduated in 1964 making a total of 456 practical nurses produced since

the inception of the program in 1955. This certainly is a very respectable contribution to the community. We continued our affiliation with the Mary Immaculate Hospital School of Nursing with a total of 83 students having their orthopaedic nursing here in 1964. We were able to obtain several registered nurses as a result of their previous enjoyable experience. Eight Cornell University-New York Hospital student nurses were here during intersession to obtain practice in basic bedside nursing. Their school was pleased with the results obtained and plan to retain this part of their new curriculum. This is gratifying since March of 1964 saw the end of their affiliation with us for orthopaedics since their program had been shortened and specialties were eliminated. Again in 1964 we had Master's students from Teachers' College, Columbia University for field work in Pediatric Orthopaedics. Plans have been made for this to continue in 1965.

One of the most interesting projects completed by the Education Department during the year was made possible by a grant from the Harriman Trust Fund. One of our instructors, Miss Veronica Sutcliffe, was relieved of her duties to work under the tutelage of the Psychological Corporation to produce an exercise in programmed learning on the "Cell and Tissues" — the first such program in this field of Practical Nursing. After further testing and revising we hope this will be published.

An article on "The Bradford Frame"

written by Instructors Harrington, Walsh, and Quatroche was published in the Journal of Practical Nursing.

Two new courses, Communication Skills and Mental Health combined with the existing Growth and Development, were added to the Practical Nursing curriculum.

Both our nursing service supervisors and our instructors have participated in many workshops, institutes, meetings, conventions, and seminars during 1964. Subjects included administration, staffing, accident prevention, incident reporting, arthritis and home care, inhalation therapy, cancer nursing, rehabilitation, personnel policies, and curriculum planning.

The Nursing Department is grateful for the many gifts received during the year. Two generous donations boosted our Nurses' Scholarship Fund materially. We expended \$2,908.72 from this fund to assist in tuition fees for our registered nurses, many of whom are working toward their Bachelor's or Master's degrees and one of whom is on her way to her doctorate. The School for Practical Nursing was beneficiary of several gifts totaling \$4,900 to be used for living expenses of many of our students who otherwise would have found it difficult if not impossible to stay in school. We have also financially assisted some of our graduates who are in Associate Degree programs to become registered nurses.

As we look forward to another year it seems appropriate to make what could be called New Year's Resolutions. It is hoped that we will be able to add a Home Care Program to the facilities we are able to offer our patients. If this is successful we will be able to shorten hospital stay, get selected patients back to the home environment sooner than is now possible and possibly reduce some of the cost of their hospitalization.

In Nursing Service we also hope to improve and enlarge our in-service program and provide better and more adequate coverage on all shifts.

There are all kinds of pressures on those who are in the business of educating nurses. There is dissension concerning the kinds, the qualifications, the responsibilities, the numbers, the curricula, the job descriptions. In fact sometimes one wonders "What is a Nurse?" and "What should she do?" It would be a help if someone could decide. In the meantime our School has produced some very useful citizens who are sorely needed in city's health facilities. We will try to anticipate future needs and gear our school accordingly.

To our Board of Managers, our Administration, our Nursing Committee, our Colleagues in other departments, our affiliating agencies, and our special patients we express our appreciation for assistance, cooperation, and support. We, of all departments, exist only by living with and for others.

Respectfully submitted,

Mary Jeanne Clapp
Mary Jeanne Clapp, RN
Director of Nursing





Glee H. Dervend
Director

REPORT OF THE DIRECTOR OF SOCIAL SERVICE

Staff Changes

For the first six months of 1964, we had no changes in our professional staff. In July came the deluge. Roberta Schofield, in charge of social work for the Polio Clinics and the Adult Orthopedic Clinics, decided she should spend more time with her small daughter, and Eleanor Slate, her Case Aide assistant elected to be a full-time housewife. Patricia Adler, Chief Social Worker in the Cerebral Service, accepted a position with a children's agency. All of Mrs. Adler's experience, including her field work when she was securing her Master's degree at Smith College had been in medical social work, and she wished to broaden her background. Alcee Speyer, who had been the recipient of our Sue Golding Social Work Scholarship for her second year of graduate study at the Columbia University School of Social Work, gave us an excellent year of service as Social Worker for the Children's Wards, but having fulfilled her commitment, preferred to pursue her career in psychiatric rather than in medical social work. Fortunately, replacements were secured promptly, so that the departing staff members were enabled to help introduce their successors.

In September, Lee Cauley resigned as Case Aide in the Cerebral Palsy Serv-

ice for graduate study at the Simmons College School of Social Work in Boston. It is a source of gratification when one of our Case Aides determines, on the basis of her experience in our Department, that she aspires to a professional career in Social Work, which demands a Master's Degree. When our Case Aide program was started several years ago, one of the chief objectives was to provide positions for college graduates, who were not convinced they wished to spend either the time or the money required for professional education, but who were "interested in helping handicapped persons, especially children". As a means of recruitment of bright young college graduates to the field of medical social work, our Case Aide programs has proved its value, for a number of our Aides have completed their graduate studies and three have returned to our staff.

Staff members appointed in 1964 and their assignments are as follows:

Carolyn Harley, MSS Columbia University School of Social Work, Chief Social Worker, Cerebral Palsy Service

Kathie O'Hara, MSS New York University School of Social Work Children's Ward Service

Sheela Mehta, MSS University of Baroda, India, Polio Clinics

Linda Glasser, B.A. University of Wisconsin, Case Aide, Cerebral Palsy Service

Ellen Spielman, B.A. University of Pennsylvania, Case Aide, Adult Orthopedic Clinics and Club Foot Clinic

Educational Activities

For the ninth consecutive summer our department participated in the summer social work experience program of the Recruiting Center of Greater New York. In past years we have generally accepted two of the applicants recommended by the Center, but this last summer, on account of staff changes and a tight vacation schedule we could provide adequate supervision and worthwhile orientation for only one College Aide. From five promising candidates we selected Louise Marcotte, Class of 1965, Regis College, Weston, Massachusetts. During her eight weeks in our Department, Miss Marcotte evinced a real interest in medical social work, in addition to some marked potentials for future development. She has been accepted at Smith College School of Social Work and will begin her graduate studies in June, 1965.

Another phase of the Department's teaching program concerns second

year graduate students who are referred for supervised field work. They are with us for three days of each week for a full academic year and receive credit toward their Master's degree. In 1963-64, Patricia Keenan, from Fordham University School of Social Work was supervised by Margaret L. Roby. We report regretfully that our second graduate student for this same period failed a required academic course and was requested to terminate his graduate studies at New York University, including his field work assignment. The Social Service Department of Special Surgery has been providing field work supervision for graduate students since 1940 and this was the first time that one of our graduate students failed to make the grade.

The Sue Golding Social Work Scholarship for the year 1964-65 was awarded to Jacqueline Valluzzo, who will receive her Master's degree from Fordham University School of Social Work in June 1965. Since Miss Valluzzo had not had previous experience in medical social work she elected to have her second year of field work at the Hospital for Special Surgery and is being supervised by Margaret L. Roby. We are so grateful to Mr. Jerrold Golding, a Member of the Board of Managers, for his interest in our Department's development and for his generosity in establishing and maintaining this fine Scholarship which insures the availability each year of a professionally educated candidate for any staff vacancy which may exist.

Staff Meetings, an important means of continuing staff education, are held twice monthly. A Committee on Agenda for Staff Meetings is appointed annually. This year's Committee consists of Kathie O'Hara, Chairman, Linda Glasser, Beatrice Herbst and Sheela Mehta. We have had some guest speakers from other Departments of the Hospital as well as from outside agencies. Staff members have presented patient cases for discussion.

Designated Funds, available for the use of the Social Service Department, fall into two groups. Seven such funds are held in the custody of the Hospital, and five are controlled by the Women's Auxiliary. All twelve are for the direct relief of patients and may be drawn upon by the Director of Social Service. Our deep appreciation is extended to

the many friends of the Social Service Department who give so freely and enable our staff to help many patients who need costly appliances, taxi rides to Clinic, expensive medications, emergency funds to tide over a family crisis, all sorts of things that contribute to the "aid and comfort" of patients, old or young. Many of our gifts come from warm-hearted individuals; others from community agencies which have a special concern for the handicapped. The Walter Scott Foundation, the Royal Aid League, Inc., the Ruth Kirzon Group, and The Karet League are among our faithful friends of many years.

Summer Camping is also Rehabilitation
Our Camping program for the summer of 1964 was highly successful. 186 campers, — 164 children, 15 young adults, and 7 teen-age tourists, — enjoyed a total of 887 vacation weeks. The total amount of hospital monies expended was \$3085.45. The cost to the hospital for each week of vacation was the almost unbelievably small figure of \$3.47. This was possible because of the superb cooperation we had from the various camps and their sponsoring agencies. A special grant of \$1150.00 from the Walter Scott Foundation was most useful and much appreciated.

Many hospitals have a very limited camping program, if any, for they consider camping is too time consuming to be a profitable project of the Social Service Department. We are convinced that participation in a suitable camping project is a very important part of the total rehabilitation of the handicapped child. It is obvious that a child will not gain much lasting benefit of a physical nature from three or four weeks out in the country, away from dirty streets and crowded home, and having three good meals each day. There are other benefits, however, of great value. The children are awakened and stimulated in many ways.

They become more independent in matters of daily living. They learn how to make friends, how to share and compete, and belong to a "group". They acquire new interests and skills by participating in camp projects. They sing with others around a camp fire at a cook-out, and they lose their shyness, or possibly their belligerent or sulky manners.

Much of the credit for a good camping

season belongs to members of the Social Service Committee, whose enthusiasm, interest, and plain hard work was invaluable. These willing volunteers filled out camp application forms, organized and managed the special clinics set up for camp health examinations, telephoned, wrote letters, and performed other functions too numerous to mention.

I should like to mention briefly a half dozen camps that accepted ten or more of our children:

Southampton Fresh Air Home, Southampton, L.I. For over sixty years, the Southampton Committee has operated the Home solely for children from Special Surgery. It is like having our own camp, but without the problems of management, hiring the staff, paying the bills, or planning the program. We select the children, provide the health examinations and the anti-tic vaccine, charter the air-conditioned bus, and serve lunch the day of departure. 59 young children went to Southampton in 1964. 52 of them stayed for eight weeks. The other seven were alternates who had three or four weeks each. They came back to the city, tanned, freckled, and in exuberant spirits.

Camp Hidden Valley, Fishkill, N.Y., maintained by the Herald-Tribune Fresh Air Fund was the first camp, to our knowledge, to initiate an integrated program, — a camp where handicapped and non-handicapped children lived and played together, and shared the same projects.

Camp Wagon Road, Chappaqua, N.Y., sponsored by the Children's Aid Society gave us ten full scholarships for a month each, and in addition granted half scholarships to some additional youngsters. Wagon Road was designed and constructed especially for handicapped children. One feature is a beautiful swimming pool.

Camp Oakhurst, maintained by the New York Service for the Physically Handicapped has given us the best of cooperation for many years. The Teen-Age Tour is a special feature for boys and girls who are ambulatory and who can manage bus steps. Well chaperoned, they travel and go sightseeing in a chartered bus, visit places of historical interest, enjoy

beautiful scenery, and have the exciting experience, — new to many of them — of sleeping in motels and ordering their meals at snack-bars and restaurants.

Camp Carola is another splendid camp, at Spring Valley, N.Y., maintained by the New York Philanthropic League. It has a most complete and varied program of activities. During the winter months in town, campers

who have become friends at Carola, meet every Saturday at their very own club, the Carolians.

Camp Hope, of the Lakeside Bible Conference, accepts severely handicapped children, including some in wheel chairs, who require too much extra care to be accepted at most camps. Fifteen campers from our Cerebral Palsy Service went to Camp Hope this last summer. Tired and nervous mothers also have a holiday

when a child who needs a great deal of care is at Camp Hope.

The Director and Staff of the Social Service Department acknowledge gratefully the assistance given to them during the entire year of 1964 by Dr. Robert Lee Patterson, Surgeon-in-Chief, by T. Gordon Young, Director of the Hospital, by Mrs. Walter J. Fried, Chairman of the Women's Auxiliary, and by Mrs. Newcomb. D. Cole, Chairman of the Social Service Committee.

Respectfully submitted,

Glee H. Dervend

Glee H. Dervend

Director of Social Service





**Brita Digby Fried,
Chairman**

REPORT OF THE CHAIRMAN OF THE WOMEN'S AUXILIARY

The year 1964 was one of accomplishment for the Women's Auxiliary. Our meetings were well attended and enlivened by the stimulating reports of the committee chairmen. We are grateful to the doctors who so generously gave of their time to address us, and to members of the hospital personnel who have told us of their work.

I am delighted to report that we exceeded our quota in the United Hospital Fund Campaign, thanks to the inspired leadership of Mrs. M. Henry Hoepli. Mrs. William Arnold was again in charge of Box Week, where we distinguished ourselves by having the highest total of any New York hospital.

We elected three new members to the Auxiliary — Mrs. Henry Bristol, Mrs. Carl E. Fowler and Mrs. Case O'Brian — but were saddened by the death of Mrs. McDowell Hosley, who had been an active member for many years.

It was with incredulity and shock that we learned that Mrs. Glee M. Dervend planned to retire in March, 1965 as head of the Social Service Department. She has been an integral part of our organization since its inception, and is respected and loved by us all. We are not losing her, however, as she will join our ranks as a member, and we look

forward to continuing this valued association. We welcome Miss Margaret Ryan, her successor.

Volunteers

Mrs. Donald K. Phillips, Chairman. Mrs. Agnes McCabe, who had been director of volunteers for the last eight years, resigned in April. Miss Virginia Roberts has taken her place, and her attractive personality is a great asset to the department.

Our Junior Volunteer program during the summer was most successful, and certificates of appreciation were given to nineteen young people.

The Volunteer Committee, with the aid of Miss Roberts, has compiled a handbook for volunteers. This will soon be distributed to the group.

Two volunteers died in 1964 — Mrs. Gertrude Geller and Mrs. McDowell Hosley. They are greatly missed by all of us.

Patients Library — Mrs. Charles C. Bannerman, Chairman

The library submits a separate report. As Auxiliary Chairman, I would like to commend Mrs. Bannerman for her enthusiastic and imaginative leadership, and to thank her for continuing to serve as library chairman.

United Hospital Fund — Mrs. M. Henry Hoepli, Chairman, Mrs. William Arnold, Box Week Chairman

Total contributions for the year amounted to \$16,210.21, representing 582 gifts. The Box Week total was \$2,017.69.

Social Service Committee — Mrs. Newcomb D. Cole, Chairman

The recipient of the Sue Golding Scholarship for 1964 is Miss Jacqueline Galluzzo, who is in the final year at the Fordham School of Social Work. Her required field work in Medical Social Service is being done at the Hospital for Special Surgery.

Mrs. Newcomb D. Cole resigned as chairman of the Joint Committee on Nursing Homes of the United Hospital Fund and the Community Council of New York. This organization came into being largely due to the efforts of our Social Service Committee, and is now an established and growing concern.

The Committee again assisted in making applications for our child clinic patients to summer camps and with the physical examinations made by Dr. Bernard Rogoff. We thank him for giving of his time and skill.

Mrs. Dervend invited members of the Social Service Committee to attend her

staff meetings in 1964. This has been a worth while experience which we hope to continue.

Membership Committee — Mrs. John Rutherford, Chairman

There are 41 members of the Auxiliary, 36 active and 5 contributing. We look forward to welcoming four new members early in 1965.

Gift Shop — Mrs. John H. Reynolds, Chairman

The gift shop has again enjoyed a successful year.

Annual report of the gift shop:

Cash receipts for 1964 .	\$36,869.68
Operating expenses . . .	33,455.49
Profit	\$ 3,414.19
12/31/63 Cash balance in Chemical Bank New York Trust Co.	\$ 6,126.89

Occupational Therapy — Mrs. David Reuter, Chairman

The Occupational Therapy Department

purchased a "touch and go" sewing machine out of interest which had accrued on its account in the Bowery Savings Bank. This has been a welcome addition to our equipment.

We again had a college undergraduate working in the department for nine weeks during the summer under a program arranged by Columbia University. The Christmas sale netted \$795.93, and the balance on hand on December 31st was \$1,123.35.

Treasurer's Report — Mrs. Harold C. Richard

Cash Balance — January 1, 1964 \$18,434.60

RECEIPTS:

Receipts from Charitable Organizations and Individuals for Designated Purposes	\$ 6,748.66
United Hospital Fund	14,651.00
Greater New York Fund	3,945.00
Refunds from Patients	307.21
Dues Received	505.00
Interest on Savings Account	173.93

TOTAL RECEIPTS 26,330.80

TOTAL CASH \$44,765.40

DISBURSEMENTS:

Salaries	17,000.00
Office Expense	1,701.76
Expenses of Professional Staff	58.75
Medical Relief	5,490.79
Convalescent Care	158.00
Summer Therapeutic Care	1,333.80
General Transportation of Patients	463.00
Library	600.00

TOTAL DISBURSEMENTS \$26,806.10

Cash Balance — December 31, 1964 \$17,959.30

In conclusion, I would like to thank members of the Women's Auxiliary for

their enthusiastic support in 1964, Mrs. Dervend for her understanding and un-

failing help to me, and Mr. Young for his interest in our projects.

Respectfully submitted

 Brita Digby Fried
 Chairman



**Jane Campbell Bannerman,
Chairman**

**REPORT OF THE ALKER MEMORIAL LIBRARY
And The
MAY AVENTS AVERILL LIBRARY FOR CHILDREN**

1964 was, as it indicates, an even year — one of organization rather than excitement. There were many library days when it seemed no one "had the patience" to read at all, or else the busy schedule of getting well did not include us. Nevertheless our nine faithful volunteers were not idle, for in addition to taking the book carts to every bed in the hospital twice a week, they have also been assigned weekly shelf work. This not only helps the librarian but brings greater familiarity with the material available. It is a housekeeping chore which includes weeding, repairing rearranging, recovering and general checking. Curiously enough this work brings about better circulation because books are re-discovered on the shelves and can be offered when "best sellers" are not available. They are often the best of previous seasons and make equally good reading.

In January Mrs. Arnold gave a Library Tea which combined business and pleasure in planning for the year ahead. In March Mrs. Edward Stern joined our ranks and has proved herself a valuable volunteer. Others took short holidays from time to time — bringing us in May to the Spring Book Sale. Due to good friends and grateful

patients we had collected enough salable books to realize \$95.00 toward the purchase of new books. From the Auxiliary Mmes. Alker, Arbon, DeCoizart, Kohns, Phillips, Hilson, Richard, Watkins and Wilson were among our best contributors, while from outside the Hospital many fine donations were sent in by Mmes. Duryee, Solomon, Smith and many others. Without these good friends our dollars would surely not stretch as far.

Summer reduced the working time to one day per week but even so we were very short of volunteers. Mrs. Cole kindly took over the duties of the Treasurer for the summer from Mrs. Kohns who spent four months in Europe. Miss Yerkes took over the professional job from Mrs. Wilson who went to Nantucket for the summer. It had been agreed that Miss Yerkes will return as a replacement when possible, although actually she is retiring from her New York life to live in Hightstown, New Jersey. The volunteer group entertained for her at the house of the Chairman and marked the occasion with a trip ticket to bring her back to us!

In the spring the hospital had authorized Mrs. Bailey of the staff to organize a retirement training program, with ref-

erence books for the use of the personnel. The Library cooperated to the extent of providing space and service for the small shelf of purchases. The program began in earnest in the fall and it is hoped that the tie-in will benefit all concerned. At the end of summer work was resumed with the usual zest culminating in the pre-Christmas Book Sale, which netted \$175.00. Books not usable in the Library or for the Sale were given away — 2 boxes to the Nurses Residence and three boxes to the Merchant Marine. Occasional boxes are also sent to the Kentucky mountain people who are in the particular interest of Miss Dean Smith of the Nursing Staff.

Changes are to be expected during the passage of years but the Library has been exceptionally fortunate in the calibre of its librarians and volunteers with a continuing "esprit de corps" that would be remarkable in any other than the Hospital for Special Surgery.

Despite television, recreation and even school, the Library for children under the chairmanship of Mrs. Sophie Rothman has increased both its circulation and number of patients served over 1963. Although this is largely due to the devoted work of Mrs. Rothman and her

co-worker, Mrs. William Arnold, they also report excellent cooperation from the teaching staff. Mrs. Geoffrey Oddy continues her support of this small library room, given in memory of her sister, Mrs. Constance Sherlock.

Library Staff:

Mrs. Leona Wilson, Librarian
Miss Helen Yerkes
Mrs. Charles Scott Bannerman,
Chairman
Mrs. Armitage Watkins,
Co-Chairman

Mrs. Sophie Rothman,
Chairman of Children's Library
Mrs. Robert Kohns, Treasurer
Mrs. William Arnold
Mrs. Oscar Brenner
Mrs. Newcomb Cole
Mrs. Carol Fowler
Mrs. S. Hazard Gillespie
Mrs. Edward Stern

Books and magazines borrowed:

Adult — 8292
Children — 5011
Staff — 4596

Total 17899

People served

Adult — 4213
Children — 1762
Staff — 2754

Total 8729 (largest since 1960)

Books in Library

January 1, 1963 6180
Added during year 370
Withdrawn during year 254
December 31, 1964 6296
Total volunteer service hours 2339

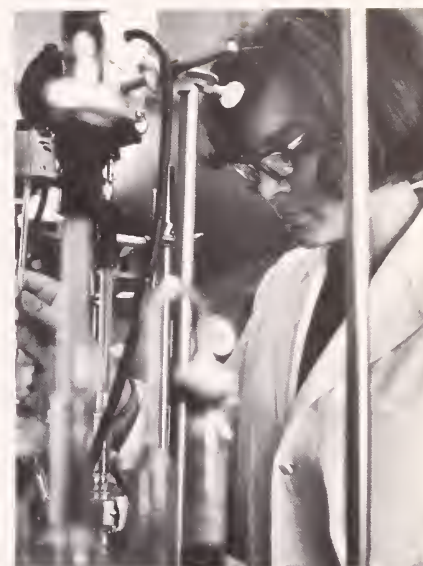
Respectfully submitted

Jane C. Bannerman
Jane Campbell Bannerman
Chairman



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SPEECHES AND EXHIBITS—1964

Staff Member	Title	Where Presented	Date
Harlan C. Amstutz	Skeletal Manifestations and Treatment of Gaucher's Disease	British Orthopaedic Association, London	September
William D. Arnold	Congenital Hip Disease in the Navajo Indian	American Academy of Orthopaedic Surgeons, Chicago	January
Thane Asch	Mammography	Westchester Surgical Society	September
Thane Asch	Techniques in Mammography	New York Roentgen Society, New York City	April
Howard D. Balensweig	Diagnosis and Treatment of Injuries of the Wrist	The Brooklyn Jewish Hospital, Brooklyn	October
Goran C. H. Bauer	Moderator of 7 Papers	Orthopaedic Research Society, Chicago	January
Goran C. H. Bauer	Tracer Methods in Orthopaedics (Instructional Courses)	American Academy of Orthopaedic Surgeons, Chicago	January
Goran C. H. Bauer	Use of Bone Seeking Isotopes in the Measurement of Blood Supply to Bone (DISCUSSOR OF PAPER)	Conference on Aseptic Necrosis of the Femoral Head, St. Louis, Missouri	January
Goran C. H. Bauer	Use of Isotopic Tracer Methods and Epidemiology of Fractures in the Aged	American Rheumatism Assoc. Research Workshop, Washington, D. C.	October
Goran C. H. Bauer	Epidemiology of Fractures	Montefiore Hospital, Bronx	December
Charles L. Burstein	The Place of Neostigmine in the Practice of Anesthesia (DISCUSSOR OF PAPER by John W. R. McIntyre, Alberta)	International Anesthesia Research Society	March
Rolla D. Campbell	Wrist Injuries (Instructional Courses)	American Academy of Orthopaedic Surgeons, Chicago	January
Rolla D. Campbell	Early Management of the Crushed Foot	158th Annual Convention, N. Y. State Medical Society, New York City	February
Rolla D. Campbell	Rheumatoid Arthritis at the Wrist	Symposium for the Restoration of Function in the Hand, New York City	March
Rolla D. Campbell	"Management of Difficult Intertrochanteric & Subtrochanteric Fractures of the Femur" "Fractures and Dislocations of the Carpal Bones"	8th Postgraduate Course in Fractures and Other Trauma, Committee on Trauma of the American College of Surgeons, Chicago	April
Rolla D. Campbell	Treatment of Trauma to the Foot	Hospital for Joint Diseases, New York City	May
Rolla D. Campbell	"Fractures and Dislocations of the Carpal Bones" "Fractures of Tibia and Fibula" "Colle's Fractures"	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital, N. Y. C.	June
John R. Cobb	Spine Studies, Part V—Thoracic Indices	American Academy of Orthopaedic Surgeons, Chicago	January
William Cooper	Cerebral Palsy (Instructional Courses)	American Academy of Orthopaedic Surgeons, Chicago	January
William Cooper	Cerebral Palsy	New York Medical College, New York City	February
William Cooper	Cartilage Cup Arthroplasty of the Hip (Discussion)	New York Academy of Medicine, New York City	March
William Cooper	Current Methods in Cerebral Palsy Care	British Exchange Fellows, Hospital for Special Surgery	May
William Cooper	The Foot in Cerebral Palsy	Hospital for Joint Diseases, New York City	May
William Cooper	Cerebral Palsy	New York University, New York City	May
William Cooper	Conference on Cerebral Palsy (Chairman)	Medical and Scientific Committee, United Cerebral Palsy Association, New York City	May
William Cooper	Conference on Vocational Rehabilitation	Zentrum Der Rehabilitation, Heidelberg, Germany	July
William Cooper	Surgery of the Foot in Cerebral Palsy	Ontario Rehabilitation Conference, Toronto	November
William Cooper	Posterior Tibial Transfer Through the Interosseous Space	New York Academy of Medicine, New York City	November
William Cooper	Orthotics Course (Lecturer)	New York University, New York City	December
John H. Doherty	Fractures of Humerus	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital	June
E. D. Eanes	Particle Size Derivation by X-ray Diffraction	Rensselaer Polytechnic Institute, Troy	June
E. D. Eanes	Effect of Fluoride on Bone Apatite Crystals	New York Academy of Sciences, New York City	November
Sidney N. Eichenholtz	Tarsal Navicular Fractures	Alumni Meeting—Hospital for Special Surgery	November
Robert H. Freiburger	Myelography with Water Soluble Media (Refresher Course)	American Academy of Orthopaedic Surgeons, Chicago	January
Robert H. Freiburger	Observations on Congenital Hip Disease in the Navajo (Exhibit with Dr. William Arnold)	American Academy of Orthopaedic Surgeons, Chicago	January
Robert H. Freiburger	Acquired Hip Disease in Children and Adults	New York Roentgen Society, New York City	April
Robert H. Freiburger	Orthopaedic Roentgenology	Connecticut Radiological Society	April
Robert H. Freiburger	Arteriography in Orthopaedic Surgery (with Dr. Halpern)	American Roentgen Ray Society, Minneapolis	September
Robert H. Freiburger	Roentgenology in Orthopaedic Diseases	Vanderbilt University Hospital, Nashville	November
Robert H. Freiburger	Present Concepts of Congenital Dislocation of the Hip and Dysplasia (with Dr. P. D. Wilson, Jr.)	Radiological Society of North America, Chicago	December
Richard H. Freyberg	Changing Concepts of Rheumatoid Arthritis and Related Disorders	St. Vincent's Hospital, New York City	January
Richard H. Freyberg	Gold Therapy for Rheumatoid Arthritis—Present Status	Postgraduate Course on Rheumatology, N. Y. University Medical College, New York City	March
Richard H. Freyberg	Rheumatology after Twenty-five Years	American Society of Clinical Rheumatologists, Nassau, the Bahamas	April
Richard H. Freyberg	Arthritis—Snags and Pitfalls in Diagnosis	Ohio State Medical	April

Staff Member	Title	Where Presented	Date
Richard H. Freyberg	"The Diagnosis and Treatment of Early Rheumatoid Arthritis" "The Experimental Basis for Gold Therapy for Rheumatoid Arthritis"	4th International Conference on Rheumatic Diseases, Aix-les-Bains, France	June
Richard H. Freyberg	Arthritis	Clinical Conference, Columbus Academy of Medicine, Columbus, Ohio	September
Richard H. Freyberg	Gold Salts Therapy for Rheumatoid Arthritis	New York Rheumatism Association Workshop, N. Y. U. College of Medicine, New York City	November
Mordecai Halpern	Clinical Application of Catheter Arteriography	Hudson County Medical Society, New Jersey	January
Mordecai Halpern	"Renal Arteriography" "General Vascular Arteriography" "Axillary Arteriography" "Percutaneous Transhepatic Cholangiography"	Dayton Radiological & Surgical Society, Dayton, Ohio	February
Mordecai Halpern	Indications for Renal Arteriography and Correlations of Renal Angiograms	5th Annual Internists Day — N. Y. State Society of Internal Medicine, New York City	March
Mordecai Halpern	Visceral Arteriography	American Medical Association, San Francisco	June
Mordecai Halpern	Arteriography in Orthopaedic Disease (with Dr. R. H. Freiburger)	American Roentgen Ray Society, Minneapolis	October
Mordecai Halpern	The Role of Angiography in the Diagnosis of Cancer	University of Texas M. D. Anderson Hospital and Tumor Institute, Houston, Texas	November
Mordecai Halpern	Visceral and Abdominal Angiography	Mid Hudson Surgical Society, Newburgh, N. Y.	November
R. A. Harper	Age Changes in the Crystal Chemistry of Bone Apatite	New York Academy of Sciences, New York City	November
Alexander Hersh	Case Presentation from the Clubfoot Clinic	British Exchange Fellows Hospital for Special Surgery	May
Alexander Hersh	Follow-up of Two Inveterate Clubfoot Cases	Alumni Meeting — Hospital for Special Surgery	November
Allan E. Inglis	Median Nerve Neuropathy at the Wrist: Surgical Consideration	American Society for Surgery of the Hand, Chicago	January
Allan E. Inglis	Rheumatoid Arthritis of the Hand	Symposium for the Restoration of Function in the Hand, New York City	March
Allan E. Inglis	Injuries of the Hand	Grand Rounds — 2nd Surg. Division, Bellevue Hospital, N. Y. C.	April
Allan E. Inglis	Injuries of Muscles and Tendons	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital, N. Y. C.	June
Bernard Jacobs	The Treatment of the Severely Slipped Capital Epiphysis (Instructional Courses)	American Academy of Orthopaedic Surgeons	January
Bernard Jacobs	"Orthopaedic Problems in the Upper Extremity" "Orthopaedic Problems in the Lower Extremity" "Spinal Problems" "Orthopaedic Surgery in Cerebral Palsy and Late Polio"	Government sponsored Review Course for Physical Medicine and Rehabilitation, Veterans Administration Hospital, Bronx	June
Paul J. Killoran	Treatment of Fractures of Femur in Patients with Paget's Disease (With Dr. J. A. Nicholas)	American Academy of Orthopaedic Surgeons, Chicago	January
Paul J. Killoran	Arthrography of the Knee	Alumni Meeting — Hospital for Special Surgery	November
Eugene M. Lance	A Functional Analysis of Parathyroid Homografts in the Rat	New York Academy of Medicine, New York City	May
Eugene M. Lance	"Extra-articular Fractures of the Os Calcis" "Monteggia Fracture Dislocations"	American Society for the Surgery of Trauma Convention, Chicago	October
Frederick Lee Liebolt	Evaluation with Long Follow-up of 100 Pantalar Arthrodeses	American Academy of Orthopaedic Surgeons, Chicago	January
Frederick Lee Liebolt	Discussion of the Actions of the House of Delegates	Orthopaedic Section, Medical Society of the State of New York, N. Y. C.	February
Frederick Lee Liebolt	Injuries to the Ligaments and Cartilages of the Knee Joint	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital, N. Y. C.	June
Frederick Lee Liebolt	Fractures and Dislocations of the Knee Joint	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital, N. Y. C.	June
Victor Mayer	Evaluation of Present Status of Perthes Disease	Orthopaedic Staff Meeting, Parkway Hospital, Forest Hills, N. Y.	September
Victor Mayer	Perthes Disease (Motion picture prepared from X-ray examinations)	Jefferson Orthopaedic Society	October
Victor Mayer	Multiple Congenital Contractures	Alumni Meeting — Hospital for Special Surgery	November
Robert C. Mellors	Glomerulonephritis: Immunologic Mechanisms of Renal Injury	International Academy of Pathologists, Chicago	April
Robert C. Mellors	Cellular Origin of Human Immunoglobulins ($\gamma 2'$ $\gamma 1A'$ $\gamma 1M$)	American College of Physicians, Washington, D. C.	September
Robert C. Mellors	Electron Probe Microanalysis. I. Calcium and Phosphorus in Normal Human Cortical Bone	The Electrochemical Society, Symposium on Electron Probe Microanalysis, Washington, D. C.	October
Robert C. Mellors	Cellular Aspects of the Immune and Autoimmune Response	Symposium of the American Society of Hematology, Seattle	November
James A. Nicholas	A Study of the Results of Treatment of Fractures of the Femur in Patients with Paget's Disease	American Academy of Orthopaedic Surgeons, Chicago	January
James A. Nicholas	Metabolic Bone Disease of the Skeletal System in Children & Adults (Instructional Courses)	American Academy of Orthopaedic Surgeons Chicago	January
James A. Nicholas	Athletic Injuries in Adolescents	Suffolk County Medical Society	February
James A. Nicholas	Skeletal Aspects of Inborn Metabolic Errors	20th Century Orthopaedic Association	June

Staff Member	Title	Where Presented	Date
James A. Nicholas	Professional Football Injuries	Third Regional Conference on Athletic Injuries, University of Rhode Island	August
James A. Nicholas	The Physiological Principles of Training and Their Relation to Musculoskeletal Injury	Orthopaedic Travel Club Hospital for Special Surgery	August
James A. Nicholas	Pathological Fractures in Elderly — Problems in Management	American College of Surgeons	October
Robert Lee Patterson	Teaching of Trauma at the Graduate Level	National Academy of Sciences — Education and Research Seminar, Dallas, Texas	March
Robert Lee Patterson	'Open Fractures' 'Pathological Fractures'	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital	June
Robert Lee Patterson	Calcification Disorders of the Shoulder	International College of Surgeons, Chicago	September
Aaron S. Posner	The Crystal Chemistry of Hard Tissue	University of Miami, Medical School	February
Aaron S. Posner	Effect of Fluoride on Hard Tissue	Hebrew University, Jerusalem, Israel	March
Aaron S. Posner	Ultrastructure of Bone	Rothschild Hospital, Haifa, Israel	March
Aaron S. Posner	X-ray Diffraction Analysis of the Effect of Fluoride on Bone Remodelling	Second European Symposium on Calcified Tissue, Liege, Belgium	April
Aaron S. Posner	The Chemistry of the Calcium Phosphates	University of Glasgow, Department of Chemistry, Glasgow, Scotland	April
Aaron S. Posner	The Use of X-ray Diffraction in Chemistry	University of Maryland, Dept. of Chemistry, College Park, Maryland	May
Aaron S. Posner	Structure and Formation of Bone and Tooth Mineral, and The Crystal Chemistry of Hard Tissues	New York Medical College, New York City	June
Aaron S. Posner	Ultrastructure of Hard Tissue	Massachusetts Institute of Technology, Dept. of Nutrition, Cambridge, Mass.	September
Aaron S. Posner	Theory of X-ray Diffraction	Bristol-Myers Co., Hillside, New Jersey	September
Aaron S. Posner	Changes in Bone Ultrastructure with Growth	University of Minnesota, Dept. of Biochemistry	December
Aaron S. Posner	The Minerals of Calcium Phosphate	University of Minnesota, Dept. of Geology	December
Aaron S. Posner	The Measurement of Crystallinity by X-ray Diffraction	University of Puerto Rico, Mayaguez, P. R.	December
W. C. Robbins	Systemic Lupus Erythematosus	Flushing Hospital, Flushing, N. Y.	January
Sidney Rothbard	Immunologic Relationships Among Various Animal Collagens	National Institutes of Health Clinical Center, Washington, D. C.	December
Paul A. Saville	Metabolic Disease of the Skeletal System in Children & Adults	American Academy of Orthopaedic Surgeons	January
Paul A. Saville	Determination of Bone Mineral Content by Iliac Crest Biopsy	Gordon Research Conference, New Hampshire	July
P. J. Tannenbaum	Statistical Analysis of the Effect of Fluoride on Bone Apatite	New York Academy of Sciences, New York City	November
Lee Ramsay Straub	Surgery of the Rheumatoid Knee	American Academy of Orthopaedic Surgeons, Chicago	January
Lee Ramsay Straub	Arthrodesis of Metacarpophalangeal Joints in the Rheumatoid Joint (DISCUSSION OF DR. R. CARROLL'S PAPER)	American Society of Surgery of the Hand, Chicago	January
Lee Ramsay Straub	Hand Surgery in Rheumatoid Arthritis (Discussion of film — Dr. Leonard Marmor)	American Academy of Orthopaedic Surgeons, Chicago	January
Lee Ramsay Straub	Surgery in Rheumatoid Arthritis (Instructional Courses)	American Academy of Orthopaedic Surgeons	January
Lee Ramsay Straub	Tendon Transplantation in the Paralytic Upper Extremity	Boston Orthopaedic Club, Boston	February
Lee Ramsay Straub	(Visitor) Surgery of the Rheumatoid Hand	Dept. of Plastic Surgery, University of N. C., Chapel Hill, N. C.	February
Lee Ramsay Straub	Surgery of the Rheumatoid 1. General considerations 2. The Hand Symposium on Rheumatoid Arthritis	1st Annual Scientific Assembly, Cleveland Rheumatism Society, Cleveland	March
Lee Ramsay Straub	"Congenital Absence of the Radius" "Congenital Absence of the Ulna"	Symposium for the Restoration of the Function of the Hand, Hospital for Special Surgery, New York Hospital	March
Lee Ramsay Straub	The Arthritic Hand	Hand Surgery Course, N. Y. U. Postgraduate Medical School, N. Y. C.	March
Lee Ramsay Straub	Panel Discussion — Hand Surgery	New York University, N. Y. C.	March
Lee Ramsay Straub	Surgery in Arthritis Surgery of the Rheumatoid Hand	Section on Physical Medical and Ohio Society of Physical Medicine and Rehabilitation	April
Lee Ramsay Straub	"Injuries to the Hand" "Fractures of the Hand"	9th Annual Fracture Course Hospital for Special Surgery, New York Hospital	June
Lee Ramsay Straub	Observations on the Correction of Genu Varum by Tibial Osteotomy (DISCUSSION OF PAPER OF DR. R. GARIEPY) ..	American Orthopaedic Association, Canadian Orthopaedic Association Combined Meeting, Vancouver, B. C.	June
Lee Ramsay Straub	"Surgery of the Rheumatoid Hand" "Surgery of Arthritis"	4th Annual Maine Orthopaedic Seminar, Colby College, Waterville, Maine	July
Lee Ramsay Straub	Surgery of the Rheumatoid Hand	Orthopaedic Section, Nassau Academy of Medicine, Mineola, N. Y.	September
Lee Ramsay Straub	Reconstruction of the Arthritic Hand	American College of Physicians, Postgraduate Course on Rheumatic Disease, National Institute of Health, Bethesda, Md.	September
Lee Ramsay Straub	Surgery of the Rheumatoid Hand and Wrist	Baltimore City Medical Society, co-sponsorship with Maryland Chapter of the Arthritis Foundation of America, Baltimore, Md.	November

Staff Member	Title	Where Presented	Date
Lee Ramsay Straub	Fracture in the Hand	Trauma Committee University Club, Pittsburgh, Pa.	November
Lee Ramsay Straub	Orthopaedic Management of the Hand	New York Rheumatism Association all-day Rheumatic Disease Workshop at New York University College of Medicine	November
T. Campbell Thompson	Opponens Transfers	New York University Post-Graduate Medical School, N. Y. C.	March
T. Campbell Thompson	Turnup-plasty	Flower Fifth Ave. Hospital, N. Y. C.	April
T. Campbell Thompson	Reconstructive Surgery of the Paralyzed Foot	Hospital for Joint Diseases, N. Y. C.	May
T. Campbell Thompson	Fractures and Dislocations of the ???	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital	June
Charles Umberger	Clinical Chemical Examinations in the Diagnosis of Comatose Patients	American Chapter of the Royal Institute of Chemists, New York City	December
Charles Umberger	Limitations of Instrumental Methods in Forensic Chemistry	N. Y. University Chemical Alumni Association, Washington Square College, New York City	October
Philip D. Wilson	The Treatment of Slipping of the Upper Femoral Epiphysis. A Follow-up Study of 300 Cases (With Dr. B. Jacobs)	American Academy of Orthopaedic Surgeons, Chicago	January
Philip D. Wilson	The Progress in the Operation of Arthroplasty in the Last 50 Years	50th Anniversary of Philadelphia Orthopaedic Club, Philadelphia	November
Philip D. Wilson, Jr.	(Discussion of Dr. Andrew Grisolia's) Fractures of the Vertebral Spine Complicating Ankylosing Spondylitis	American Academy of Orthopaedic Surgeons, Chicago	January
Philip D. Wilson, Jr.	Degenerative Disease of Hip	N. Y. Radiological Society, New York City	April
Philip D. Wilson, Jr.	Hip Clinic Presentation Pemberton Procedures	British Exchange Fellows Hospital for Special Surgery	May
Philip D. Wilson, Jr.	Dislocations and Fracture Dislocations of Hip	9th Annual Fracture Course, Hospital for Special Surgery, New York Hospital, N. Y. C.	June
Philip D. Wilson, Jr.	Scoliosis — TV Panel	American College of Surgeons, Chicago	October
Philip D. Wilson, Jr.	Experiences with Iliac Osteotomy (Pemberton) in Congenital Dislocations and Subluxations of the Hip	N. Y. Academy of Medicine and Connecticut Medical Society	November
Philip D. Wilson, Jr.	Early Results of Osteotomy for the Treatment of Arthritic Disease of the Hip	Alumni Meeting — Hospital for Special Surgery	November
Philip D. Wilson, Jr.	Present Concepts of Congenital Hip Dislocations and Dysplasia (with Dr. Freiburger)	Radiological Society of North America, Chicago.	December



GIFTS AND ENDOWED BEDS

Agnew, A. C.
 Agnew, Alexander, McL. — in memoriam
 Agnew, George B.
 Agnew, John T.
 Alumni Association
 Andriesse, Elisabeth Spanjaard Fund
 Art Fund
 Arthritis Relief Fund
 Arthritis and Rheumatism Foundation
 (Fund for Hospitalization)
 Arthritis and Rheumatism Foundation Grant
 Atomic Energy Commission Grants
 Avery, Mary O. Fund
 Avery, Mary P. — in memory of her son,
 Henry Ogden Avery
 Baird, Josephin B. Fund No. 1
 Baird Rehabilitation Study Fund
 Ballard, Edward L. Grant
 Barth Fund for Work in Scleroderma
 Barth, Tina — in memory of
 Becker, Cornelia D. Fund — in memory of
 Mary T. Becker and Joseph Becker
 Bishop, Mrs. David Wolfe, in memory of her
 husband, David Wolfe Bishop
 Bliss Fund — gift of Mrs. George Bliss
 Bliss, George — in memory of his daughter,
 Netta Bolton Bliss
 Bonnell, Florence K., for Marie E. Hampton
 Bowdoin, George — for the children of the
 Children's Aid Society
 Brooks, Walter — Foundation Fund
 Brown, Mrs. Ann D. — in memory of Annie V. Brown
 Brown, Mrs. George Hunter — in memory of her
 daughter, Millie Brown
 Brown, Margaret J. — Orthopedic Bed
 Bullinger, Elizabeth T. — Beds
 Bullinger, Elizabeth T. — Fund
 Bullinger, Robert E.
 B.P.O. Elks, New York Lodge No. 1
 Children's Recreation Fund
 Clark Film Library Fund
 Clark, Marian de Forest — to be known as the
 "Julian Bouton Clark Bed"
 Clubfoot Clinic Fund
 Coley, William D. — in memory of
 Curran, Elise Postley — in memory of
 James Ross Curran
 Currier, Edward West — in memory of
 Nathaniel Currier
 Currier, Edward West — in memory of
 Eliza W. Currier
 Currier, Edward West — in memory of
 West Currier
 Currier, Edward West — in memory of
 Edward W. Currier
 Currier, Estate of Laura — in memory of
 Walter B. Currier
 Davidson, Eleanor H. — Fund
 DeBarbieri, Margaret K. Beiter — Fund
 DeBruce Property Renovation
 Dellinger, Mary A. — in memory of her niece,
 Lulie Dexter
 Development Work in Cerebral Palsy
 Dubrin, Yetta — Fund
 Ehrenreich, Minnie B. — Fund
 Eichner, Benjamin B. — Fund
 Eidlitz, Otto M. — Memorial Bed
 Eidlitz, Robert James — to be known as the
 "Marc Eidlitz Bed"
 Elms, Mrs. Leonard — Flower Fund
 Employees' Activities Fund
 Eustis, Marie C. — in memory of
 George C. Eustis
 Farrar, Mrs. Sarah J. — in memory of her father
 and mother, Horace and Sarah J. Theall
 Field and Bishop Cortland de Peyster, and
 Florence Van Cortland — in memory of
 Mary E. de Peyster
 Finch, Henry L. — in devoted and loving memory
 of his father and mother, Edward L. and
 Annie R. Finch
 Ford Foundation Scholarship and Fellowship Fund
 Fraser, Mrs. Anna M. — in memory of her father
 and mother, Hansen K. and Emma B. Corning
 Freleigh, Mary Helen — in memory of her daughter,
 Helen Freleigh
 Friendship Hall Fund
 Fromkin, Robert G. — Fund for Research in
 Connective tissue diseases

Fund for adult motion picture entertainment
 Fund for Annual Dance
 Fund for Clinic Coffee Cart
 Fund for Cerebral Palsy Research
 Fund for development of work in cerebral palsy
 Fund for Equipment for Neuro-Muscular Study
 Fund for Fellowship in Social Work
 Fund for maintenance of Solarium
 Fund for Research in Rheumatic Diseases
 Fund for Special Equipment
 Fund for treatment of Hernia Cases
 (The DeLong Corporation)
 Fund in Memory of Dr. William B. Coley,
 received from William Bingham II
 Gambrill, Anna Van Nest — in memory of
 Mary Thompson Van Nest
 Garland, Anne Louise Fund — in memory of:
 Robert Emmet, Jr.
 Thomas Addis Emmet
 Tudor Garland
 Hamilton Garland
 Elizabeth Garland
 James A. G. Emmet
 James A. Garland
 Charles Garland
 Aileen Emmet
 Hope Garland
 Geographic Full-Time Fund
 Gibson, W. Fraser, for the "Jeanette Fraser
 Gibson Bed"
 Gibney Memorial Fund
 Gifford, Mrs. Ellen M., in memory of
 Mrs. Ellen M. Gifford
 Golding, Sue — Social Service Scholarship Fund
 Greenwall, Susan, Fund
 Griswold, Mrs. Lydia Alley, in memory of her
 husband, George Griswold
 Hardward Square Club of New York
 Harnett, Katherine I. D. — in memory of
 Tommie S. Donald
 Hilson Discretionary Fund
 Hopkins, John Jay — Foundation Grant
 Hurst, Thomas D. and Kate Fund
 Istel Social Welfare Fund (formerly Social Service
 Transportation Fund)
 Janeway, Fannie Memorial Fund
 Keller, F. Wilson Memorial Fund
 Killough, Walter, H. D. — in memory of
 Walter H. D. Killough
 Knight, James, M.D. — in memory of
 James Knight, M.D.
 Kreisler, Harriet Fund
 Krumb, Henry — Fund
 Lewis, Louise — Memorial Bed
 Logotheton Student Fund
 Lilly, Eli & Co. Grant
 Lyric Art Society — Marie T. Schaefer
 McCaffrey, John B.
 Manners, Francis L. Whittlesley — The Franklin
 Whittlesley Memorial Bed
 Manners, Francis L. Whittlesley — in memory of
 Hannah Roe Whittlesley
 Martin, Janie A. — in memory of
 Martin, Walter A.
 Medical Library Fund
 Mitchell, Minturn, Arthur — in memory of
 Roland Greene and Cornelia Port Mitchell
 Miller, Alexander, Jr.
 Miller, Annie — in memory of
 Miller, Annie — in memory of Cecil Miller
 Miller, Harriet Thompson
 Montgomery, Andrew H. — Memorial Fund
 More, Marjorie Veith — Memorial Fund
 Multiple Sclerosis Fund
 National Dairy Council Grants
 Neute, Josephine L. — in memory of
 Emily P. Munn
 Neute, Josephine L. — in memory of
 Jessie B. Brown
 New York City, Research Investigatorship
 Nurses' Alumnae Fund
 Nurses' Library Fund
 Nursing Study Fund (Mary W. Harriman Trust)
 Nursing Study Fund
 Odum-Cochran Foundation Fund
 Partridge, Franklin L. — in memory of Grace
 Partridge, Endowed by her mother
 Paton, Annie A. — in memory of
 Alexander McL. Agnew

Patterson's Dr., Discretionary Fund
 Henry Lewis Phillips and Gertrude
 Abbot Phillips Fund
 Pillsbury, Annette Ellsworth — in memory of
 her parents and sister
 Pocher, Barbara Ellenbast — in memory of
 Frank Ellenbast
 Polachek, John Foundation Grant
 Potter, Orlando B., Fund
 President's Discretionary Fund
 Ranney, Marie Celle — in memory of
 Marie Celle Ranney
 Rashmajian, Harry — Fund
 Rathbone, Fund (The)
 Regalado, Martita — Fund for Nursing Education
 Religious Flower Fund
 Reynolds, Martha S. — in memory of her
 mother, Ernestine Schaffner
 Robbins, Blanche Stern
 Roche, Edward and Ellen Relief Foundation Fund
 Rockefeller Foundation Grant
 Romeyn, Hiram Radcliff — endowed by his
 wife, Grace W. Romeyn
 Rotary Club of New York
 Routh, Joseph P., — Fund for Research in
 Arthritis and Paget's Disease
 Russell Sage Dental Endowment Fund
 Satterwhite, Florence C. — in memory of
 James E. Martin, Jr., Preston C. Satterwhite,
 Florence C. Satterwhite
 Schomburg Fund for Care of Crippled
 Schoonmaker, Emma W. — in memory of
 Emma W. and Jacob H. Schoonmaker
 Schweckendieck, Edith M. Fund
 Secor, Mary E. Fund
 Semi-Centennial Memorial Fund — Seybold,
 Paulina — in memory of Paulina Seybold
 Sharp, Evelyn — Equipment Fund for Home
 Assistance
 Sharp, Evelyn — Kitchen Food Supply Fund
 Shearer, George L., by his family and friends
 Sloane, William Fund
 Social Service Relief Fund
 Starin, Priscilla, T. P. — in memory of
 Ramson Parker
 Starin, Priscilla, T. P. — in memory of
 Mary Dick Parker
 Stephens, Richmond — Memorial Fund
 Stern, Adele Fund
 Straub's Dr., Fund for Hand Clinic
 Sturges, Frederick M. Jr. — Fund
 Taylor, Charles Fayette, Memorial Fund
 Taylor, Dr. Henry Ling — in memory of
 Charles Fayette Taylor
 Thayer, Jessica Haddington Fund
 Thompson's Dr., Discretionary Fund
 Thorne, Lydia Ann — in memory of
 Lydia Ann Thorne
 Thorne, Phoebe Ann
 Tillotson, Emma L. — in memory of
 Millard Glenn Tillotson
 Tower, Joseph T. — in memory of Mary T. Tower
 Wagner, Dr. Lewis Clark, Alumni
 Resident's Fund
 Wainerdi's Dr., Harold R. — Fund for
 Multiple Sclerosis
 Wall, W. W. — in memory of Louis Eugene Wall
 Watson, Emily A. — in memory of John Watson
 Watson, Emily A. — in memory of Marcy L. Watson
 Watson, Emily A. — in memory of Mary J. Walker
 Weedon, Eva A. Fund
 Wendel, Georgina G. R. — in memory of her
 sister Augusta Wendel
 Wendel, Georgina G. R. — in memory of
 Josephine Wendel
 Wilson, Philip D. Fellowship Fund
 Wilson's Dr. Philip D. Surgical Research Fund
 (various contributors)
 Witherell, Eli — Fund
 Witherell, Rebecca
 Witherell, Rebecca, Endowed Bed
 Witherell, Rebecca, Open Air Fund
 Woolworth, Velma B., Fund — in tribute to the
 memory and generosity of H. Sylvia,
 A. H. G. Wilks and Ella Van E. Wendel
 Whitney, Helen Hay Foundation Grant
 X-Ray Education Fund

1964 STATISTICS

Comparative Statistics

	1964	1963
Total Patient Days	62,738	58,792
Total Clinic Visits	51,939	49,991
Percent of Occupancy	86.14%	8,094
Admissions	3,140	3,070
Laboratory Tests	83,320	70,922
X-Ray Films Made	74,349	69,671
Drug Prescriptions Filled	78,357	73,452
Operations	2,190	1,970
Average length of stay (Days)	20	20
Meals Served	202,452	176,376
Total number of Volunteers	189	134
Hours donated by Volunteers	23,228	19,894
Physical Medicine Treatments	35,659	34,632
Total Number of Employees	712	669

Summary of Patients

Out-Patient Department

First Visits	5,514	5,173
Revists	46,425	44,818
Total	51,939	49,991

In-Patients

	Private	Semi-Private	Associated Hospital Compensation Pay and Part Pay	Public Charges	Ward Free	Total Ward	Total
Remaining January 1, 1964	13	68	31	8	0	39	120
Admitted in 1964	524	1858	738	200	8	946	3328
Total Treated in 1964	537	1926	769	208	8	985	3448
Discharged	519	1857	729	196	4	929	3305
Deaths	5	15	3	0	0	3	23
Total Discharged	524	1872	732	196	4	932	3328
Remaining December 31, 1964 .	13	54	37	12	4	53	120

AUDITORS' CERTIFICATE

Board of Managers
New York Society for the Relief of the Ruptured and
Crippled, Maintaining The Hospital for Special Surgery
and the Margaret M. Caspary Clinic
New York 17, New York

We have examined the balance sheet as at December 31, 1964, of the New York Society for the Relief of the Ruptured and Crippled, Maintaining the Hospital for Special Surgery and the Margaret M. Caspary Clinic, and the related statement of income and expense for the year then ended.

The records of the Investment Fund, Permanent Funds, Temporary Funds for Designated Purposes and the Plant Fund are maintained by the United States Trust Co. of New York. We reviewed the transactions in these funds, but our detailed examination was limited to the records of the Research Funds which form part of the Temporary Funds. The details of the assets and principal balances of the funds were not audited at December 31, 1964, and the transactions in these funds during the year, as incorporated in the accompanying balance sheet and supporting schedules, were furnished to us by the United States Trust Co.

Our examinations of the Operating Fund and the Research Funds were made in conformity with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, subject to the foregoing, the accompanying balance sheet and supporting schedules and the statement of income and expense, and the summary of changes in funds present fairly the financial position of the Society at December 31, 1964 and the results of its operations for the year then ended, in accordance with generally accepted principles of accounting, applied on a basis consistent with that of the preceding year.

MacNICOL, JOHNSON & CO.

New York, N.Y.
May 7, 1965

NEW YORK SOCIETY FOR THE RELIEF OF THE RUPTURED AND CRIPPLED

Maintaining THE HOSPITAL FOR SPECIAL SURGERY MARGARET M. CASPARY CLINIC

Condensed Comparative Statement of Income and Expense for the Years Ended December 31, 1964 and December 31, 1963

	Year Ended December 31,	
	1964	1963
Income from patients, less allowances	\$3,836,149.11	\$3,273,219.83
Less: Provision for uncollectible accounts receivable	45,000.00	25,000.00
Income from Patients after Deductions	3,791,149.11	3,248,219.83
Add: Other Hospital Operating Income		
Collection on accounts previously written off	252.40	194.04
Purchase Discount	6,969.69	5,588.73
Rent Income	2,307.82	1,776.94
Cafeteria receipts	139,183.32	126,839.81
Record room fees	4,458.76	3,588.50
Overhead earned	75,750.00	51,441.16
Miscellaneous	94,932.47	62,958.02
Total Other Hospital Operating Income	323,854.46	252,387.20
Total Hospital Operating Income	4,115,003.57	3,500,607.03
Operating Expenses		
Salaries and wages	3,128,540.56	2,837,269.12
Supplies and expense	1,468,601.51	1,340,724.46
Depreciation of building and equipment	208,415.53	199,703.07
Total Operating Expenses	4,805,557.60	4,377,696.65
Hospital Operating Loss	690,554.03	877,089.62
Less: Transfers from Temporary Funds	127,737.88	121,061.35
Excess of Hospital Operating Expenses over Hospital Operating Income (Charged to Working Capital)	562,816.15	756,028.27
Supplementary Income		
Interest and Dividends (Net)	230,452.90	247,378.95
Income from estates and trusts	65,347.44	57,274.34
Income from 77th Street Property — net	16,971.59	9,745.89
Income from 72nd Street Property — net	1,870.13	—
Contributions:		
United Hospital Fund and Greater New York Fund	29,060.00	26,739.00
Other gifts and contributions	176,009.54	153,689.74
Women's Auxiliary — Social Service	17,000.00	15,480.00
Total Supplementary Income	536,711.60	510,307.92
Less:		
Fund Raising and Public Relations Planning	44,451.05	45,160.37
Centennial Expense	11,698.34	55,197.41
Miscellaneous, legal and professional services	20,406.10	24,173.28
Total Deduction from Supplementary Income	76,556.10	124,531.06
Supplementary Income (Net) (Credited to Investment Fund Principal)	460,155.50	385,776.86
Excess of Expenses over Income for the Year	\$ 102,660.65	\$ 370,251.41

Note: (a)

Expenditures made during 1964 for research salaries and supplies amounting to \$541,376.06 were paid with special funds designated for such purposes and are not included in the above operating expenses.

NEW YORK SOCIETY FOR THE RELIEF

Maintaining THE HOSPITAL FOR

MARGARET M.

Comparative Balance Sheet as of December

ASSETS

Operating Fund

December 31, 1964

December 31, 1963

Cash in banks and office	\$ 30,706.58	\$ 51,621.61
Patients' accounts receivable	\$ 702,538.61	\$ 538,999.06
Less: Allowance for uncollectible accounts	185,005.91	143,483.16
Due from Blue Cross Plans	517,532.70	395,515.90
Due from Blue Cross Plans — Rate adjustments	108,190.69	96,715.42
Due from City of New York	97,510.83	—
Loans receivable	5,200.33	9,643.84
Miscellaneous accounts receivable	46,590.00	88,400.00
Inventory of materials and supplies	9,621.23	19,583.90
Prepaid insurance	74,676.25	64,956.95
Deferred expenses	25,732.52	13,225.51
Total	<u>158,902.32</u>	<u>186,043.04</u>
	<u>1,074,663.45</u>	<u>925,706.17</u>

Investment Fund

Cash in commercial and savings banks	83,658.37	633,028.86
Investments (Market Value Dec. 31, 1964 — \$6,166,395.35)	4,094,734.15	4,600,673.20
Total	<u>4,178,392.52</u>	<u>5,233,702.06</u>

Permanent Funds

Cash in commercial and savings banks	302,265.91	313,281.25
Investments (Market Value Dec. 31, 1964 — \$2,457,625.54)	2,025,197.41	1,726,719.94
Total	<u>2,327,463.32</u>	<u>2,040,001.19</u>

Temporary Funds for Designated Purposes

Cash in commercial and savings banks	\$ 593,249.96	\$ 335,910.66
Research grants receivable	313,740.87	173,570.71
Investments (Market Value Dec. 31, 1964 — \$1,297,276.84)	1,043,185.84	1,012,708.34
Due from Operating Fund	—	13,003.23
Due from doctors	—	16,500.00
Deferred expenses	2,275.49	—
Total	<u>1,952,452.16</u>	<u>1,551,692.94</u>

Plant Fund

Hospital properties and equipment			
Cost	\$7,304,504.83	\$7,271,590.05	
Less: Accumulated depreciation	1,569,514.14	1,376,681.81	5,894,908.24
Research building and equipment			
Cost	3,638,274.57	3,301,013.64	
Less: Accumulated depreciation	430,276.23	318,453.15	2,982,560.49
Other real estate and equipment			
Cost	1,480,405.08	363,920.26	
Less: Accumulated depreciation	77,885.00	51,252.00	312,668.26
Total	<u>10,345,509.11</u>	<u>9,190,136.99</u>	
Construction in Progress — Research	—	6,991.48	
Due from Funds for Designated Purposes	430,276.23	318,453.15	
Total	<u>10,775,785.34</u>	<u>9,515,581.62</u>	
TOTAL ASSETS	<u>\$20,308,756.79</u>	<u>\$19,266,683.98</u>	

OF THE RUPTURED AND CRIPPLED

SPECIAL SURGERY

CASPARY CLINIC

31, 1964 and December 31, 1963

LIABILITIES, CAPITAL AND SURPLUS

	December 31, 1964	December 31, 1963
Operating Fund		
Accounts payable	\$ 169,310.16	\$ 200,659.84
Accrued salaries payable	46,980.62	72,369.50
Taxes payable	51,393.11	63,144.97
Sundry liabilities	45,845.89	62,630.45
Unexpended balances of special funds	55,166.92	49,311.57
Due to Temporary Fund	—	13,003.23
Reserve for insurance premium adjustments	36,000.00	36,000.00
Total	<u>404,696.70</u>	<u>497,119.56</u>
 Working Capital	 669,966.75	 428,586.61
Total	<u>1,074,663.45</u>	<u>925,706.17</u>
 Investment Fund		
Investment Fund Principal	<u>4,178,392.52</u>	<u>5,233,702.06</u>
 Permanent Funds		
Principal — Unrestricted as to Use of Income	320,465.77	325,675.85
Principal — Restricted as to Use of Income	1,971,829.19	1,672,140.40
Unexpended balance of Restricted Income	35,168.36	42,184.94
Total	<u>2,327,463.32</u>	<u>2,040,001.19</u>
 Temporary Funds for Designated Purposes		
Unappropriated Principal	\$ 1,514,798.85	\$ 1,224,399.94
Unappropriated income balance	7,017.08	8,479.85
Deferred credits	360.00	360.00
Due to Plant Fund	430,276.23	318,453.15
Total	<u>1,952,452.16</u>	<u>1,551,692.94</u>
 Plant Fund		
Accounts payable — Architect fees	3,337.20	—
Loans payable	319,351.46	319,351.46
Mortgage payable	146,000.00	—
Plant Capital	10,307,096.68	9,196,230.16
 Total	<u>10,775,785.34</u>	<u>9,515,581.62</u>
TOTAL LIABILITIES, CAPITAL AND SURPLUS	<u>\$20,308,756.79</u>	<u>\$19,266,683.98</u>

Maintaining

THE HOSPITAL FOR SPECIAL SURGERY
MARGARET M. CASPARY CLINICSummary of Changes in Principal Balances of All Funds
during the Year Ended December 31, 1964

	Total All Funds	Working Capital	Investment Funds Principal	Permanent Fund Principal and Restricted Income	Temporary Funds for Special Purposes	Liability	Plant Fund Mortgage Payable	Plant Capital
Balances — December 31, 1963	\$18,450,751.27	\$ 428,586.61	\$5,233,702.06	\$2,040,001.19	\$1,232,879.79	\$319,351.46	\$ —	\$ 9,196,230.16
Add:								
Transferred from other funds	2,272,012.30	920,280.46	13,820.00	—	—	—	—	1,337,911.84
Legacies and gifts received	1,683,952.18	—	98,000.00	267,737.72	1,318,214.46	—	—	—
Net gain or (loss) from sale of investments	251,455.19	—	225,628.24	38,858.61	(13,031.66)	—	—	—
Non-operating income (net)	596,197.95	—	460,155.50	68,327.87	67,714.58	—	—	—
To record mortgage payable on 72nd Street property	146,800.00	—	—	—	—	—	146,800.00	—
Transfer to Plant Capital of an amount equal to reduction of Mortgage Payable	—	—	—	—	—	—	(800.00)	800.00
Total Additions	<u>4,950,417.62</u>	<u>920,280.46</u>	<u>797,603.74</u>	<u>374,924.20</u>	<u>1,372,897.38</u>	<u>—</u>	<u>146,000.00</u>	<u>1,338,711.84</u>
Deduct:								
Transferred to:								
Working Capital	934,100.46	—	711,864.93	—	—	—	—	222,235.53(a)
Temporary Funds for Special Purposes	85,394.52	85,394.52	—	—	—	—	—	—
Plant Capital	1,309,257.85	—	1,140,247.35	—	169,010.50	—	—	—
Disbursements charged against principal or accumulated income	1,003,212.81	—	800.00	87,462.07	914,950.74	—	—	—
Adjustment of cost for past service benefits for the period prior to December 31, 1963 (Teachers Insurance Annuity Association and College Retirement Equities Fund Policies)	30,689.65	30,689.65	—	—	—	—	—	—
To cancel nominal value of Campbell Oil Unit #1 as non-productive	1.00	—	1.00	—	—	—	—	—
To charge off an amount capitalized in prior years, and subsequently reclassified	556.75	—	—	—	—	—	—	556.75
To charge off cost of equipment discarded or given to doctors	4,956.24	—	—	—	—	—	—	4,956.24
Loss on disposal of equipment	96.80	—	—	—	—	—	—	96.80
Hospital Operating Loss	562,816.15	562,816.15	—	—	—	—	—	—
Total Deductions	<u>3,931,082.23</u>	<u>678,900.32</u>	<u>1,852,913.28</u>	<u>87,462.07</u>	<u>1,083,961.24</u>	<u>—</u>	<u>—</u>	<u>227,845.32</u>
Balances — December 31, 1964	<u>\$19,470,086.66</u>	<u>\$ 669,966.75</u>	<u>\$4,178,392.52</u>	<u>\$2,327,463.32</u>	<u>\$1,521,815.93</u>	<u>\$319,351.46</u>	<u>\$146,000.00</u>	<u>\$10,307,096.68</u>

(a) Depreciation on hospital building and equipment.

PHILIP D. WILSON RESEARCH FOUNDATION

Comparative Balance Sheet

as of December 31, 1964 and December 31, 1963

<u>ASSETS</u>	<u>December 31, 1964</u>	<u>December 31, 1963</u>
Cash:		
United States Trust Company	\$ 6,348.54	\$ 17,164.71
New York Savings Bank	59,000.00	59,000.00
Roslyn Savings Bank	<u>46,434.54</u>	<u>33,000.00</u>
	\$111,783.08	\$109,164.71
Loan receivable	<u>319,351.46</u>	<u>319,351.46</u>
TOTAL ASSETS	<u><u>\$431,134.54</u></u>	<u><u>\$428,516.17</u></u>
 <u>PRINCIPAL</u>		
Beginning Balance	\$428,516.17	\$422,484.21
Gifts and donations received	12,650.00	5,000.00
Interest on savings accounts	4,263.34	3,528.10
Sundry expenses	(114.27)	(2,496.14)
Transfers to New York Society Research Account	<u>(14,180.70)</u>	<u>—</u>
PRINCIPAL BALANCE	<u><u>\$431,134.54</u></u>	<u><u>\$428,516.17</u></u>

DEPARTMENT OF RESEARCH PHILIP D. WILSON RESEARCH FOUNDATION

Details of Changes in the Research Fund
during the Year Ended December 31, 1964

	<u>Total All Funds</u>	<u>Research Funds</u>	<u>U.S. Public Health Grants</u>	<u>Atomic Energy Commission Grants</u>	<u>Other Grants</u>
Balances Available at December 31, 1963	\$ 176,498.39	\$(124,055.46)	\$255,094.87	\$ 9,611.29	\$ 35,847.69
Additions:					
Income earned and appropriated	230,565.86	230,565.86	—	—	—
New gifts and grants received	799,036.45	28,759.45	559,319.00	25,000.00	185,958.00
Refund balance of Unexpended Grants	<u>(16,054.30)</u>	<u>—</u>	<u>(13,992.34)</u>	<u>—</u>	<u>(2,061.96)</u>
Total Additions	<u>1,013,548.01</u>	<u>259,325.31</u>	<u>545,326.66</u>	<u>25,000.00</u>	<u>183,896.04</u>
Deductions:					
Salaries	384,985.86	114,289.68	238,506.42	11,190.70	20,999.06
Expenses and commitments	156,390.20	55,836.81	87,594.57	6,672.82	6,286.00
Overhead	75,750.00	10,168.31	60,227.41	4,792.97	561.31
Equipment	<u>169,010.50</u>	<u>17,128.69</u>	<u>100,914.43</u>	<u>3,559.75</u>	<u>47,407.63</u>
Deductions before Depreciation	<u>786,136.56</u>	<u>197,423.49</u>	<u>487,242.83</u>	<u>26,216.24</u>	<u>75,254.00</u>
Depreciation on building and equipment	<u>111,823.08</u>	<u>111,823.08</u>	<u>—</u>	<u>—</u>	<u>—</u>
Total Deductions	<u>897,959.64</u>	<u>309,246.57</u>	<u>487,242.83</u>	<u>26,216.24</u>	<u>75,254.00</u>
Balance Available at December 31, 1964	<u><u>\$ 292,086.76</u></u>	<u><u>\$(173,976.72)</u></u>	<u><u>\$313,178.70</u></u>	<u><u>\$ 8,395.05</u></u>	<u><u>\$144,489.73</u></u>

1864 - 1964 OFFICERS OF THE SOCIETY

PRESIDENTS (Dates Inclusive)

Green, John C	1864-1874
Brown, Stewart	1875-1879
Willets, Samuel	1880-1883
Macy, William H.	1883-1887
Osborn, William H.	1887-1890
Isham, William B.	1891-1901
Sturges, Frederick	1901-1910
Osborn, William Church	1910-1925
Melcher, John S.	1926-1928
Osborn, William Church— Acting President	1928-1930
Osborn, William Church	1931-1937
Osborn, William Church— President Emeritus	1938-1951
Rossiter, Arthur W.	1938-1948
Duryee, Samuel S.	1948-1958
Bastedo, Philip	1958-

CHAIRMAN OF THE EXECUTIVE COMMITTEE

Miller, Lawrence McK.	1956-
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VICE-PRESIDENTS (Dates Inclusive)

Minturn, Robert B.	1864-1865
Brown, Stewart	1864-1874
Lenox, James	1864-1879
Wetmore, A. R.	1864-1880
Wolfe, John David	1864-1872
Griswold, George	1866-1875
Willets, Samuel	1873-1879
Corning, H. K.	1875-1877
Macy, William H.	1876-1882
Terbell, Henry	1878-1887
Hoe, Robert	1880-1883
Colgate, Robert	1880-1884
Osborn, William H.	1881-1886
Potter, Orlando	1883-1893
Iselin, Adrian	1884-1904
Isham, William B.	1885-1890
	1905-1908
Agnew, Alexander L.	1887-1890
Webb, William H.	1888-1894
Kingland, William M.	1892-1904
Thorne, Samuel	1892-1905
Kennedy, John S.	1894-1908
Bliss, George	1895
Willets, John T.	1897-1911
Stearns, John Noble	1906
Wing, John D.	1905-1909
Macy, William H., Jr.	1908-1912
Iselin, Ernest	1931-1951
Brown, Vernon Carleton	1935-1944
Wing, Morgan	1937-1948
Thieriot, Charles H.	1940
Wilmerding, Lucius	1941-1949
Duryee, Samuel S.	1945-1948
Wing, Morgan, Jr.	1948-1952
Miller, Lawrence McK.	1949-1956
Finch, Henry L.	1949-1956
Symington, Charles J.	1951-1955
Pillot, Andre P.	1952-1958

1864 - 1965 BOARD OF MANAGERS

(Dates Inclusive)

Abbe, George W.	1864-1879
Agnew, Alexander McL.	1876-1890
Bastedo, Philip	1955-
Beekman, James W.	1864-1865
	1868-1870
Billings, Frederick	1888-1889
Bishop, David Wolfe	1882-1899
Bishop, Nathan	1864-1867
Bliss, George	1887-1895
Bliss, Walter	1911-1922
Bonner, Robert	1879-1881
Booth, William A.	1864-1865
Bradford, William H.	1878-1895
Brown, Stewart	1864-1879
Brown, Vernon C.	1931-1944

Fletcher, Mrs. Walter D.	1955-1965
Reynolds, Mrs. John H.	1956-
Noel, Louis W.	1956-
Hilson, Mrs. Edwin I.	1957-
Stevenson, T. Kennedy	1958-1963
Rawle, Marshall	1964-

TREASURERS (Dates Inclusive)

Sturges, Jonathan	1864-1874
Sturges, Frederick	1875-1906
Melcher, John S.	1907-1925
Shearer, George L.	1926-1946
Stewart, Wm. A. W.	1946-1955
Stewart, E. Sheldon	1955-1965
Dyson, Charles H.	1965-

ASSISTANT TREASURERS

Hoquet, Robert L., Jr.	1956-1963
Dyson, Charles H.	1964-1965
Harris, Henry U.	1965-

CORRESPONDING SECRETARIES

Hartley, Robert M.	1864-1871
Swan, Otis D.	1872-1876
Abbe, George W.	1877-1878
Stewart, W. A. W.	1879-1887
Stetson, Francis Lynde	1888-1889
Sturges, William C.	1890-1896
Jennings, Walter	1897
Stearns, John Noble	1924-1930
Eyre, Edgar Ainsworth	1931-1935
Finch, Henry L.	1936-1949
Townsend, Reginald T.	1949-1956
Hilson, Mrs. Edwin I.	1957-1958
Osborn, William H., Jr.	1958-

RECORDING SECRETARIES

Collins, Joseph B.	1864-1867
Swan, Otis D.	1868-1871
Hartley, Robert M.	1872-1875
Warburton, A. F.	1876-1878
Abbe, George W.	1879
Townsend, John P.	1880-1897
Eyre, Edgar Ainsworth	1924-1930
Miller, Lawrence McK.	1931-1949
Melcher, John	1949-1956

CORRESPONDING SECRETARIES AND RECORDING SECRETARIES

Jennings, Walter	1898-1899
Osborn, William Church	1900-1909
Stearns, John Noble	1910-1923

SECRETARIES

Melcher, John	1956
Rawle, Marshall	1957-1964
Osborn, William H., Jr.	1964-

Cabot, F. Higginson	1926-1928
Caswell, John	1866-1867
Chapin, L. H. Paul	1931-1935
Church, John A.	1940-1941
Clark, C. C.	1888-1899
Clark, Jr., George C.	1906-1909
Colgate, Charles	1872-1877
Colgate, R. R.	1908-1921
Colgate, Robert	1869-1884
Collins, Joseph B.	1864-1867
Cooper, Peter	1868-1870
Corning, H. K.	1866-1877
Davison, F. Trubee	1923-1924
Davison, H. P.	1912-1921
Denny, Thomas	1864-1875
DePew, Chauncey M.	1897-1901
Draper, William H.	1897-1900



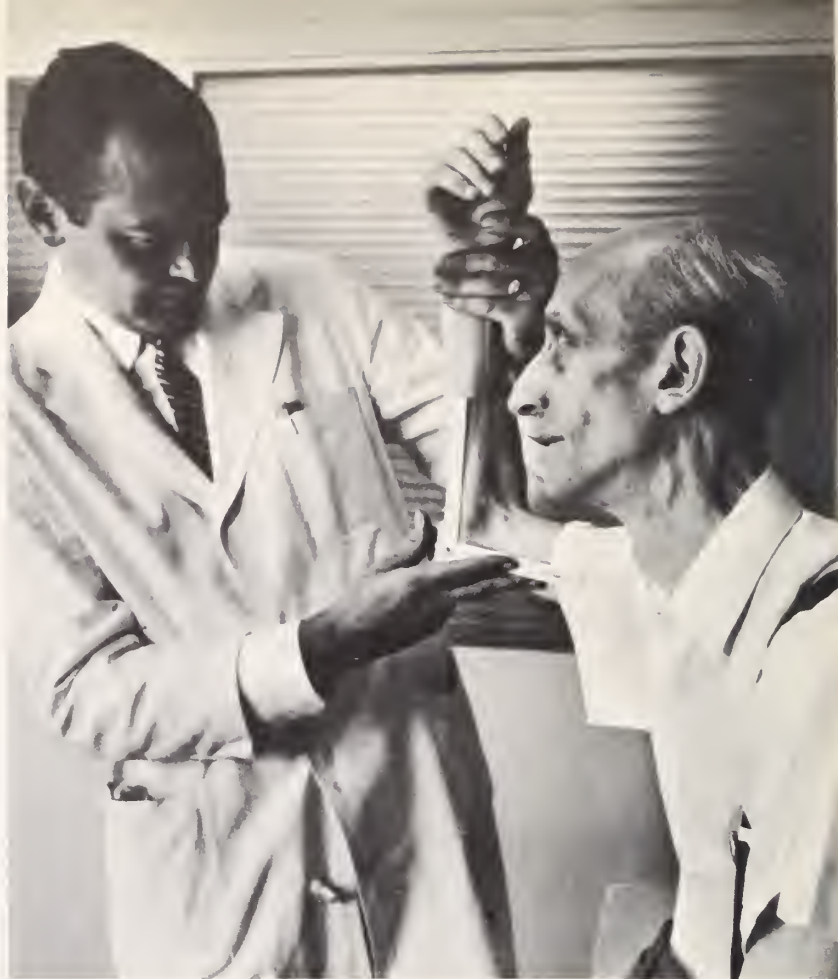
Drexel, III, Mrs. John R.1959-1961
Duryee, Samuel S.1940-1961
Dyson, Charles H.1959-
Eliott, Howard1920-1928
Eyre, Edgar Ainsworth1923-1935
.....1945-1955
Fancher, Enoch L.1864-1865
Finch, Henry L.1929-1960
Fiske, Josiah M.1879-1881
Fletcher, Walter D.1941
Fletcher, Mrs. Walter D.1950-1965
Fried, Mrs. Walter J.1962-
Gibson, W. Frazer1931-1937
Gilman, William C.1864-1871
Gillespie, Jr., S. Hazard1955-1959
.....1961-
Golding, Jerrold R.1953-
Green, John C.1864-1874
Griswold, George1864-1875
Hagaman, Frederick P.1957-1962
Handy, Parker1874-1876
Harris, Jr., Henry U.1961-
Hartley, Robert M.1864-1875
Hartshorn, Dr. W. Morgan1941-1955
Harvey, Alexander D.1957-1965
Hay, Louis C.1929-1938
Hayes, R. Somers1901-1904
Hilson, Edwin I.1951-1952
Hilson, Mrs. Edwin I.1952-
Hoe, Robert1878-1883
Hoffman, Samuel V.1873
Hoepli, Mrs. M. Henry1958-1962
Hoffman, William B.1877-1880
Hoguet, Dr. Joseph P.1931-1946
Hoguet, Jr., Robert L.1953-
Holbrook, Mrs. John1962-
Hoppin, William W.1936-1948
Hutton, Mrs. Edward F.1955-1959
Iselin, Adrian1881-1904
Iselin, Jr., Adrian1902-1928
Iselin, Ernest1929-1951
Isham, William B.1880-1908
Jackson, William H.1953-1955
Jaffrey, Edward S.1866-1877
Jennings, Walter1892-1899
Kellogg, James C.1964-
Kennedy, John S.1890-1908
Kingsland, William M.1877-1904
Knapp, Theodore J.1943-1947
Lapham, Lewis A.1955-1957
Lawrence, Effingham1939-1940
Lawrence, James F.1964-
Lenox, James1864-1879
Livingston, John C.1908-1914
McLane, Guy R.1906-1911
.....1914-1920
Macy, William H.1871-1886
Macy, Jr., William H.1892-1912
Magoun, George C.1886-1891
Meicher, John1926-1956
Meicher, John S.1906-1927
Miller, Charles A.1894-1897
Miller, Lawrence McK.1926-
Minturn, Robert B.1864-1865
Mixter, David M.1960-
Moore, William S.1938-1940
Morgan, Hon. Edwin D.1880-1881
Noel, Louis, W.1936-
Osborn, A. Perry1941-1951
Osborn, Frederick H.1913-1928
Osborn, William Church1892-1951
Osborn, Earl D.1951-1963
Osborn, William H.1871-1891
Osborn, Jr., William H.1957-
Parsons, Henry I.1908-1912
Pennoyer, Paul G.1955-1957
Pierson, Dr. Richard N.1957-1963
Pillot, Andre P.1941-1958
Pool, Beekman H.1948-1950
Potter, Frederick1910-1916
Potter, Orlando1921-1924
Potter, Orlando B.1875-1893
Prentice, Robert Kelly1906-1958

Pruyn, Erving1931-1942
Quincy, John W.1864-1870
Rawle, Marshall1955-
Redmond, Geraldyn1907-1918
Redmond, Roland S.1919-1924
Reynolds, Mrs. John H.1949-
Robbins, Chandler1876-1887
Rockefeller, William A.1923-1930
Rogers, Francis Day1961-
Rossiter, Arthur W.1921-1950
Scoville, Robert1931-1934
Shearer, George L.1921-1946
Simmons, Frank Hunter1917-1927
.....1929-1930
Sloane, William1900-1916
Smith, S. Sidney1900-1921
Sterns, John Noble1889-1906
Stearns, John N.1902-1908
.....1909-1936
Sterns, Jr., John N.1919-1930
Stetson, Francis Lynde1888-1889
Stevenson, T. Kennedy1949-1965
Stewart, E. Sheldon1947-1965
Stewart, W. A. W.1879-1887
Stewart, Wm. A. W.1946-1955
Stout, Francis A.1883-1888
Straus, Nathan, III1950-1958
Stuart, Robert L.1871-1873
Sturges, Arthur P.1897-1909
Sturges, Frederick1871-1909
Sturges, Frederick1931-1935
Sturges, Jonathan1864-1874
Sturges, William C.1885-1896
Swan, Otis D.1866-1876
Symington, Charles J.1941-1955
Terbell, Henry S.1864-1887
Thieriot, Charles H.1936-1940
Thieriot, Charles H.1965-
Thorne, Samuel1880-1905
Tompkins, B. A.1952-1955
Townsend, John P.1876-1897
Townsend, Reginald T.1944-1957
Trumbull, Frank1913-1919
Vanderbilt, Cornelius1881-1895
VanRensselaer, Alex1874-1878
Wall, Albert Carey1957-1960
Warburton, A. F.1876-1878
Webb, H. Walter1893-1898
Webb, William H.1882-1894
Wetmore, A. R.1864-1880
Whitman, Dr. Royal1932-1934
Willets, Howard1913-1928
Willets, John T.1866-1911
Willets, Samuel1868-1882
Wilmerding, Lucius1935-1949
Wing, John D.1896-1909
Wing, J. Morgan1912-1928
Wing, Morgan1921-1950
Wing, Jr., Morgan1946-1953
Witter, Jr., Dean1959-
Witthaus, Rudolph A.1864
Wolfe, John David1864-1872
Wood, Oliver1864-1868
.....and 1870
Wriston, Walter B.1958-

ADVISORY COUNCIL

Duryee, Samuel S.1961-
Eyre, Edgar Ainsworth1955-1962
Fletcher, Mrs. Walter D.1965-
Hartshorn, Dr. W. Morgan1955-1956
Harvey, Alexander D.1965-
Osborn, Earl D.1964-
Pierson, Richard N. M.D.1964-
Pillot, Andre P.1958-1963
Stevenson, T. Kennedy1965-
Stewart, E. Sheldon1965-
Stewart, William A. W.1955-1960
Symington, Charles J.1955-
Townsend, Reginald T.1957-
Tompkins, B. A.1962-





ENDOWED BEDS

A bed may be endowed by an unrestricted gift to the Society of not less than \$7,500 made for that purpose, and the donor during his life, or, if the gift is made by will, the person named in the will for a period not to exceed twenty years, shall have the right to designate an occupant of such bed. When the gift amounts to \$10,000 or more, the Society will furnish to the designated occupant of such bed without charge in any one calendar year care and services, the cost of which, computed at the Society's then scale of rates, equals the income earned by the Society on the amount of such gift, computed upon the basis of the average rate of return on the Society's general funds during the preceding calendar year. The Society will list all endowed beds in its annual report and record the same on appropriate plaques in the Hospital.

LEGACIES OF THE SOCIETY

The Society has always been greatly aided by this form of generosity. No precise words are necessary to a valid legacy to the corporation. The following form, however, may be suggested.

"I give to New York Society for the Relief of the Ruptured and Crippled, located at 535 East 70th Street, New York City, the sum of

..... Dollars."



THE HOSPITAL FOR SPECIAL SURGERY

is affiliated with

The New York Hospital and Cornell University

is a member of

The American Hospital Association

The Hospital Association of New York State

The Greater New York Hospital Association

The United Hospital Fund

The Greater New York Fund

is accredited by

The Joint Commission on Accreditation of Hospitals

The Council on Medical Education and Hospitals of

the American Medical Association for

Resident Training in Orthopedic Surgery

is registered by

The Department of Social Welfare of New York State

participates in

The International Education Exchange Visitors

Program in the United States Department of State

